

# Images\_and\_LinkedIn\_Profile(Data\_Analysis)

Allama Ikbal Sijan

2023-09-12

## Data Wrangling & Cleaning

```
df <- read_csv("Data_Clean.csv")
df <- df %>%
  select(!c(StartDate, EndDate, IPAddress, Status,
            RecordedDate, LocationLatitude, LocationLongitude, DistributionChannel,Q1))
```

```
df <- df %>% slice(-2)
```

```
asian_man_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

asian_man_df <- asian_man_df %>%
  filter(Asian_Man_1 != "N/A")

colnames(asian_man_df) <- asian_man_df[1,]
asian_man_df <- asian_man_df[-1, ]
colnames(asian_man_df)[7] = "Attention_check"
```

```
asian_woman_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

asian_woman_df <- asian_woman_df %>%
  filter(Asian_Woman_1 != "N/A")

colnames(asian_woman_df) <- asian_woman_df[1,]
asian_woman_df <- asian_woman_df[-1, ]
colnames(asian_woman_df)[7] = "Attention_check"
```

```
black_man_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

black_man_df <- black_man_df %>%
  filter(Black_Man_1 != "N/A")

colnames(black_man_df) <- black_man_df[1,]
black_man_df <- black_man_df[-1, ]
colnames(black_man_df)[7] = "Attention_check"
```

```
black_woman_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

black_woman_df <- black_woman_df %>%
  filter(Black_Woman_1 != "N/A")

colnames(black_woman_df) <- black_woman_df[1,]
black_woman_df <- black_woman_df[-1, ]
colnames(black_woman_df)[7] = "Attention_check"
```

```
blight_man_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

blight_man_df <- blight_man_df %>%
  filter(Blight_Man_1 != "N/A")

colnames(blight_man_df) <- blight_man_df[1,]
blight_man_df <- blight_man_df[-1, ]
colnames(blight_man_df)[7] = "Attention_check"
```

```
blight_woman_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

blight_woman_df <- blight_woman_df %>%
  filter(Blight_Woman_1 != "N/A")

colnames(blight_woman_df) <- blight_woman_df[1,]
blight_woman_df <- blight_woman_df[-1, ]
colnames(blight_woman_df)[7] = "Attention_check"
```

```
wasian_man_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

wasian_man_df <- wasian_man_df %>%
  filter(Wasian_Man_1 != "N/A")

colnames(wasian_man_df) <- wasian_man_df[1,]
wasian_man_df <- wasian_man_df[-1, ]
colnames(wasian_man_df)[7] = "Attention_check"
```

```
wasian_woman_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

wasian_woman_df <- wasian_woman_df %>%
  filter(Wasian_Woman_1 != "N/A")

colnames(wasian_woman_df) <- wasian_woman_df[1,]
wasian_woman_df <- wasian_woman_df[-1, ]
colnames(wasian_woman_df)[7] = "Attention_check"
```

```

white_man_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

white_man_df <- white_man_df %>%
  filter(White_Man_1 != "N/A")

colnames(white_man_df) <- white_man_df[1,]
white_man_df <- white_man_df[-1, ]
colnames(white_man_df)[7] = "Attention_check"

white_woman_df <- df %>%
  select(ResponseId, Column1, `Duration (in seconds)`, Progress, UserLanguage, Finished, Attention_check)

white_woman_df <- white_woman_df %>%
  filter(White_Woman_1 != "N/A")

colnames(white_woman_df) <- white_woman_df[1,]
white_woman_df <- white_woman_df[-1, ]
colnames(white_woman_df)[7] = "Attention_check"

new_df <- rbind(asian_man_df, asian_woman_df,
               black_man_df, black_woman_df,
               blight_man_df, blight_woman_df,
               wasian_man_df, wasian_woman_df,
               white_man_df, white_woman_df)

new_df = new_df[,!(names(new_df) %in% c("Timing - First Click","Timing - Last Click"))]

colnames(new_df)[8] <- "timing_page_submit_LP"
colnames(new_df)[9] <- "click_count_LP"

colnames(new_df)[10] <- "item1_leader"
colnames(new_df)[11] <- "timing_leader"
colnames(new_df)[12] <- "click_count_leader"

colnames(new_df)[13] <- "item2_independent"
colnames(new_df)[14] <- "timing_independent"
colnames(new_df)[15] <- "click_count_independent"

colnames(new_df)[16] <- "item3_ambitious"
colnames(new_df)[17] <- "timing_ambitious"
colnames(new_df)[18] <- "click_count_ambitious"

colnames(new_df)[19] <- "item4_loyal"
colnames(new_df)[20] <- "timing_loyal"
colnames(new_df)[21] <- "click_count_loyal"

colnames(new_df)[22] <- "item5_sensitive"
colnames(new_df)[23] <- "timing_sensitive"
colnames(new_df)[24] <- "click_count_sensitive"

colnames(new_df)[25] <- "item6_warm"
colnames(new_df)[26] <- "timing_warm"

```

```

colnames(new_df)[27] <- "click_count_warm"

colnames(new_df)[28] <- "item7_compassionate"
colnames(new_df)[29] <- "timing_compassionate"
colnames(new_df)[30] <- "click_count_compassionate"

colnames(new_df)[31] <- "item8_adaptable"
colnames(new_df)[32] <- "timing_adaptable"
colnames(new_df)[33] <- "click_count_adaptable"

colnames(new_df)[34] <- "item9_sincere"
colnames(new_df)[35] <- "timing_sincere"
colnames(new_df)[36] <- "click_count_sincere"

colnames(new_df)[37] <- "item10_reliable"
colnames(new_df)[38] <- "timing_reliable"
colnames(new_df)[39] <- "click_count_reliable"

colnames(new_df)[40] <- "item11_truthful"
colnames(new_df)[41] <- "timing_truthful"
colnames(new_df)[42] <- "click_count_truthful"

colnames(new_df)[43] <- "item12_race"
colnames(new_df)[44] <- "timing_race"
colnames(new_df)[45] <- "click_count_race"

colnames(new_df)[46] <- "dem1_age"
colnames(new_df)[47] <- "dem2_gender"
colnames(new_df)[48] <- "dem3_ethnicity"
colnames(new_df)[49] <- "dem3_ethnicity_other"

colnames(new_df)[50] <- "dem4_employment_status"
colnames(new_df)[51] <- "dem5_occupation"

new_df <- new_df %>%
  filter(Finished == TRUE & Attention_check == "Digital Marketing Role")

fac_var <- c("Group", "item12_race", "dem2_gender", "dem3_ethnicity", "dem4_employment_status")
new_df <- new_df %>%
  mutate(across(fac_var, as.factor))

num_var <- c("Duration (in seconds)", "timing_page_submit_LP", "click_count_LP", "item1_leader", "timing")
new_df <- new_df %>%
  mutate(across(num_var, as.numeric))

```

## Descriptive statistics

```
describe(new_df)
```

```
##               vars    n  mean      sd median trimmed   mad   min
```

## Response ID*	1	608	304.50	175.66	304.50	304.50	225.36	1.00
## Group*	2	608	5.48	2.86	5.00	5.48	2.97	1.00
## Duration (in seconds)	3	608	209.88	179.03	162.00	175.32	69.68	43.00
## Progress*	4	608	1.00	0.00	1.00	1.00	0.00	1.00
## User Language*	5	608	1.00	0.00	1.00	1.00	0.00	1.00
## Finished*	6	608	1.00	0.00	1.00	1.00	0.00	1.00
## Attention_check*	7	608	1.00	0.00	1.00	1.00	0.00	1.00
## timing_page_submit_LP	8	608	42.06	50.92	28.66	31.96	19.24	1.41
## click_count_LP	9	608	1.78	4.02	0.00	0.85	0.00	0.00
## item1_leader	10	608	5.74	1.05	6.00	5.85	1.48	1.00
## timing_leader	11	608	11.76	14.70	8.35	9.29	4.92	1.64
## click_count_leader	12	608	2.18	1.92	1.00	1.77	0.00	0.00
## item2_independent	13	608	5.81	1.12	6.00	5.95	1.48	1.00
## timing_independent	14	608	8.12	12.85	5.44	6.02	2.63	0.94
## click_count_independent	15	608	1.88	1.45	1.00	1.58	0.00	0.00
## item3_ambitious	16	608	6.14	1.03	6.00	6.30	1.48	1.00
## timing_ambitious	17	608	8.08	19.04	4.59	5.04	2.02	0.99
## click_count_ambitious	18	608	1.79	1.25	1.00	1.54	0.00	0.00
## item4_loyal	19	608	5.13	1.21	5.00	5.14	1.48	1.00
## timing_loyal	20	608	7.55	9.98	4.97	5.58	2.33	1.30
## click_count_loyal	21	608	1.85	1.41	1.00	1.56	0.00	0.00
## item5_sensitive	22	608	5.13	1.15	5.00	5.12	1.48	1.00
## timing_sensitive	23	608	10.42	50.75	4.82	5.38	2.15	1.23
## click_count_sensitive	24	608	1.88	1.41	1.00	1.61	0.00	0.00
## item6_warm	25	608	5.10	1.20	5.00	5.14	1.48	1.00
## timing_warm	26	608	6.59	12.51	4.15	4.47	1.75	1.18
## click_count_warm	27	608	1.83	1.41	1.00	1.55	0.00	0.00
## item7_compassionate	28	608	5.04	1.16	5.00	5.04	1.48	1.00
## timing_compassionate	29	608	5.72	9.75	3.77	4.08	1.51	1.03
## click_count_compassionate	30	608	1.77	1.40	1.00	1.51	0.00	0.00
## item8_adaptable	31	608	5.83	1.00	6.00	5.93	1.48	1.00
## timing_adaptable	32	608	5.99	9.61	3.90	4.20	1.56	1.03
## click_count_adaptable	33	608	1.75	1.26	1.00	1.52	0.00	0.00
## item9_sincere	34	608	5.44	1.17	6.00	5.51	1.48	1.00
## timing_sincere	35	608	6.51	15.15	3.69	3.98	1.48	0.85
## click_count_sincere	36	608	1.74	1.22	1.00	1.49	0.00	0.00
## item10_reliable	37	608	6.03	0.99	6.00	6.16	1.48	2.00
## timing_reliable	38	608	6.11	12.85	3.60	3.95	1.55	0.82
## click_count_reliable	39	608	1.75	1.20	1.00	1.52	0.00	0.00
## item11_truthful	40	608	5.65	1.11	6.00	5.74	1.48	1.00
## timing_truthful	41	608	7.07	32.02	3.51	3.85	1.41	0.94
## click_count_truthful	42	608	1.75	1.17	1.00	1.53	0.00	0.00
## item12_race*	43	608	2.99	1.58	3.00	2.98	2.97	1.00
## timing_race	44	608	15.65	40.67	10.36	11.48	6.13	1.86
## click_count_race	45	608	2.23	2.35	1.00	1.73	0.00	0.00
## dem1_age	46	608	37.25	8.14	36.00	37.25	8.90	20.00
## dem2_gender*	47	608	2.58	0.52	3.00	2.62	0.00	1.00
## dem3_ethnicity*	48	608	2.89	0.85	3.00	2.93	0.00	1.00
## dem3_ethnicity_other*	49	608	14.83	1.28	15.00	15.00	0.00	1.00
## dem4_employment_status*	50	608	1.11	0.46	1.00	1.00	0.00	1.00
## dem5_occupation*	51	608	246.66	139.42	251.50	248.30	184.58	1.00
##			max	range	skew	kurtosis	se	
## Response ID*		608.00	607.00	0.00	-1.21	7.12		
## Group*		10.00	9.00	0.00	-1.21	0.12		

## Duration (in seconds)	2065.00	2022.00	4.84	34.35	7.26
## Progress*	1.00	0.00	NaN	NaN	0.00
## User Language*	1.00	0.00	NaN	NaN	0.00
## Finished*	1.00	0.00	NaN	NaN	0.00
## Attention_check*	1.00	0.00	NaN	NaN	0.00
## timing_page_submit_LP	467.23	465.81	4.10	21.86	2.07
## click_count_LP	39.00	39.00	4.58	27.33	0.16
## item1_leader	7.00	6.00	-1.04	2.09	0.04
## timing_leader	208.16	206.52	7.36	75.18	0.60
## click_count_leader	13.00	13.00	2.25	6.01	0.08
## item2_independent	7.00	6.00	-1.07	1.47	0.05
## timing_independent	200.14	199.20	9.24	112.43	0.52
## click_count_independent	12.00	12.00	2.10	5.92	0.06
## item3_ambitious	7.00	6.00	-1.41	2.58	0.04
## timing_ambitious	257.49	256.50	8.72	87.63	0.77
## click_count_ambitious	8.00	8.00	1.75	3.36	0.05
## item4_loyal	7.00	6.00	-0.29	0.16	0.05
## timing_loyal	120.95	119.64	5.78	44.59	0.40
## click_count_loyal	12.00	12.00	2.36	7.89	0.06
## item5_sensitive	7.00	6.00	-0.19	-0.13	0.05
## timing_sensitive	1152.78	1151.55	19.37	421.91	2.06
## click_count_sensitive	10.00	10.00	1.92	4.42	0.06
## item6_warm	7.00	6.00	-0.36	-0.01	0.05
## timing_warm	169.46	168.28	7.85	74.59	0.51
## click_count_warm	12.00	12.00	2.28	7.63	0.06
## item7_compassionate	7.00	6.00	-0.22	0.03	0.05
## timing_compassionate	122.43	121.40	7.70	70.01	0.40
## click_count_compassionate	19.00	19.00	4.24	38.88	0.06
## item8_adaptable	7.00	6.00	-0.93	1.40	0.04
## timing_adaptable	106.76	105.73	6.48	49.22	0.39
## click_count_adaptable	14.00	14.00	2.82	16.29	0.05
## item9_sincere	7.00	6.00	-0.62	0.39	0.05
## timing_sincere	257.56	256.71	10.32	140.49	0.61
## click_count_sincere	8.00	8.00	1.80	3.45	0.05
## item10_reliable	7.00	5.00	-1.06	1.17	0.04
## timing_reliable	205.53	204.71	9.83	124.16	0.52
## click_count_reliable	10.00	10.00	2.00	5.74	0.05
## item11_truthful	7.00	6.00	-0.74	0.54	0.05
## timing_truthful	639.00	638.06	15.85	278.80	1.30
## click_count_truthful	8.00	8.00	1.60	2.86	0.05
## item12_race*	5.00	4.00	-0.06	-1.61	0.06
## timing_race	896.08	894.22	17.63	363.51	1.65
## click_count_race	25.00	25.00	4.20	28.80	0.10
## dem1_age	50.00	30.00	0.20	-1.01	0.33
## dem2_gender*	3.00	2.00	-0.63	-0.94	0.02
## dem3_ethnicity*	6.00	5.00	0.30	4.09	0.03
## dem3_ethnicity_other*	15.00	14.00	-8.21	70.33	0.05
## dem4_employment_status*	3.00	2.00	3.82	12.67	0.02
## dem5_occupation*	481.00	480.00	-0.05	-1.22	5.65

```
new_df <- new_df %>%
  mutate(masculinity = (item1_leader + item2_independent + item3_ambitious) / 3,
         femininity = (item4_loyal + item5_sensitive + item6_warm + item7_compassionate) / 4,
         neutral = (item8_adaptable + item9_sincere + item10_reliable + item11_truthful) / 4)
```

```
aggregated_scale <- new_df[ , c("masculinity", "femininity", "neutral")]
alpha(aggregated_scale)
```

```
## Number of categories should be increased in order to count frequencies.
```

```
##
## Reliability analysis
## Call: alpha(x = aggregated_scale)
##
##      raw_alpha std.alpha G6(smc) average_r S/N   ase mean   sd median_r
##      0.84      0.84      0.82      0.64 5.4 0.012  5.6 0.82      0.69
##
##      95% confidence boundaries
##              lower alpha upper
## Feldt      0.82  0.84  0.86
## Duhachek  0.82  0.84  0.86
##
## Reliability if an item is dropped:
##      raw_alpha std.alpha G6(smc) average_r S/N alpha se var.r med.r
## masculinity      0.86      0.86      0.76      0.76 6.3   0.011  NA  0.76
## femininity      0.82      0.82      0.69      0.69 4.5   0.015  NA  0.69
## neutral         0.65      0.65      0.48      0.48 1.9   0.028  NA  0.48
##
## Item statistics
##      n raw.r std.r r.cor r.drop mean   sd
## masculinity 608  0.82  0.83  0.70  0.62  5.9 0.90
## femininity  608  0.87  0.86  0.77  0.67  5.1 1.02
## neutral     608  0.93  0.94  0.91  0.85  5.7 0.89
```

*## all the aggregated scales highly correlate with the overall scale (highest corr neutral = 0.93)*  
*## so dropping neutral would have the most impact on alpha value, while dropping masculinity or femininity*

```
new_df <- new_df %>%
  mutate(total_response_time = timing_leader + timing_independent + timing_ambitious +
    timing_loyal + timing_sensitive + timing_warm + timing_compassionate +
    timing_adaptable + timing_sincere + timing_reliable + timing_truthful)
```

## Data Visualizations

```
total_response_time_bygroup <- new_df %>%
  group_by(Group) %>%
  summarise(Mean = mean(total_response_time), Sd = sd(total_response_time))
total_response_time_bygroup
```

```
## # A tibble: 10 x 3
##   Group      Mean    Sd
##   <fct>    <dbl> <dbl>
## 1 Asian_Man  82.5  73.8
## 2 Asian_Woman 77.8  58.0
```

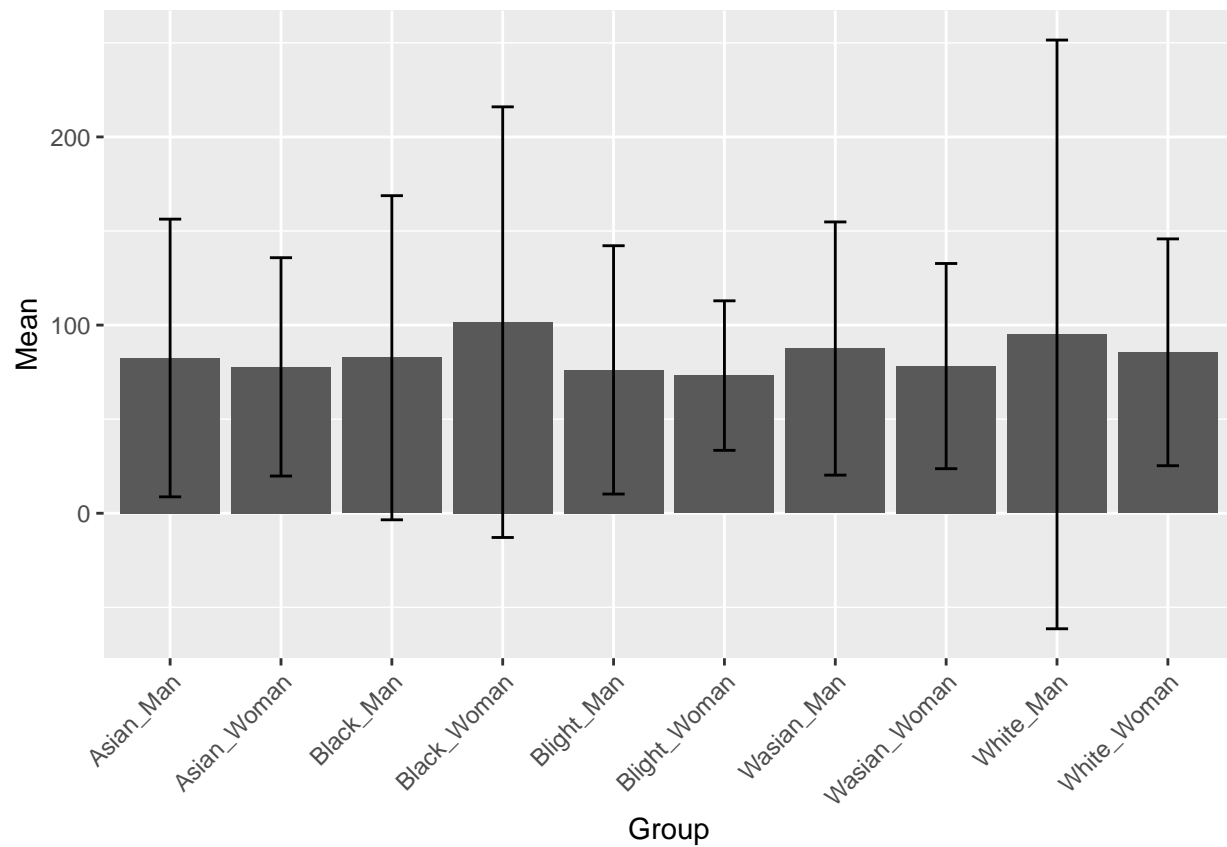
```
## 3 Black_Man      82.7  86.1
## 4 Black_Woman    102.  114.
## 5 Blight_Man     76.2  66.0
## 6 Blight_Woman   73.2  39.7
## 7 Wasian_Man     87.5  67.3
## 8 Wasian_Woman   78.2  54.5
## 9 White_Man      95.1 156.
## 10 White_Woman   85.5  60.3
```

```
item_wise_response_time_bygroup <- new_df %>%
  group_by(Group) %>%
  summarise(Mean_timing_leader = mean(timing_leader), Sd_timing_leader = sd(timing_leader),
    Mean_timing_independent = mean(timing_independent), Sd_timing_independent = sd(timing_independent),
    Mean_timing_ambitious = mean(timing_ambitious), Sd_timing_ambitious = sd(timing_ambitious),
    Mean_timing_loyal = mean(timing_loyal), Sd_timing_loyal = sd(timing_loyal),
    Mean_timing_sensitive = mean(timing_sensitive), Sd_timing_sensitive = sd(timing_sensitive),
    Mean_timing_warm = mean(timing_warm), Sd_timing_warm = sd(timing_warm),
    Mean_timing_compassionate = mean(timing_compassionate), Sd_timing_compassionate = sd(timing_compassionate),
    Mean_timing_adaptable = mean(timing_adaptable), Sd_timing_adaptable = sd(timing_adaptable),
    Mean_timing_sincere = mean(timing_sincere), Sd_timing_sincere = sd(timing_sincere),
    Mean_timing_reliable = mean(timing_reliable), Sd_timing_reliable = sd(timing_reliable),
    Mean_timing_truthful = mean(timing_truthful), Sd_timing_truthful = sd(timing_truthful))
item_wise_response_time_bygroup
```

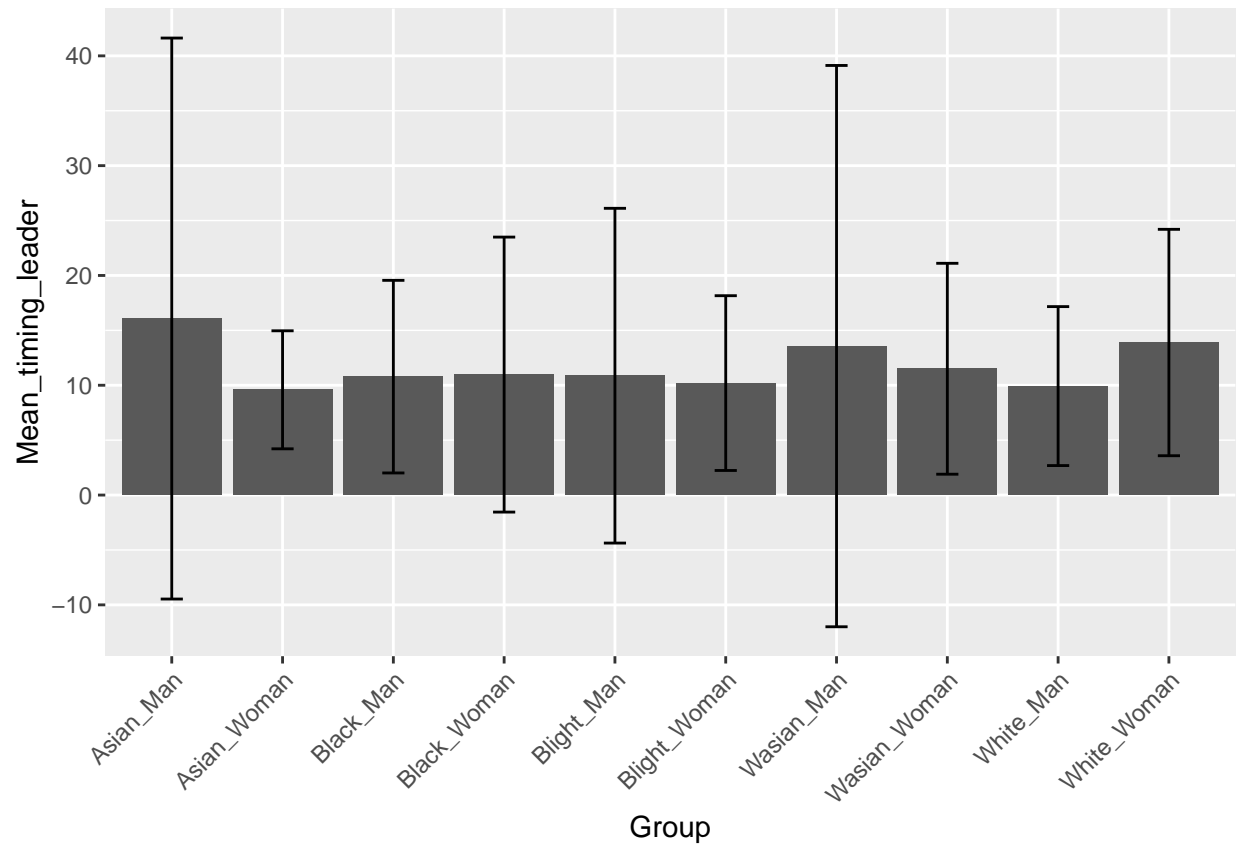
```
## # A tibble: 10 x 23
##   Group      Mean_timing_leader Sd_timing_leader Mean_timing_independent
##   <fct>          <dbl>          <dbl>          <dbl>
## 1 Asian_Man      16.1            25.5            8.94
## 2 Asian_Woman     9.59            5.37            6.78
## 3 Black_Man      10.8            8.77            8.73
## 4 Black_Woman    11.0            12.5            6.16
## 5 Blight_Man     10.9            15.2            6.84
## 6 Blight_Woman    10.2            7.96            6.95
## 7 Wasian_Man     13.6            25.6            10.5
## 8 Wasian_Woman    11.5            9.60            7.84
## 9 White_Man       9.92            7.24            10.5
## 10 White_Woman    13.9            10.3            7.99
## # i 19 more variables: Sd_timing_independent <dbl>,
## #   Mean_timing_ambitious <dbl>, Sd_timing_ambitious <dbl>,
## #   Mean_timing_loyal <dbl>, Sd_timing_loyal <dbl>,
## #   Mean_timing_sensitive <dbl>, Sd_timing_sensitive <dbl>,
## #   Mean_timing_warm <dbl>, Sd_timing_warm <dbl>,
## #   Mean_timing_compassionate <dbl>, Sd_timing_compassionate <dbl>,
## #   Mean_timing_adaptable <dbl>, Sd_timing_adaptable <dbl>, ...
```

```
## histogram
total_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean - Sd, ymax = Mean + Sd),
    width = 0.2, position = position_dodge(width = 0.5)) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

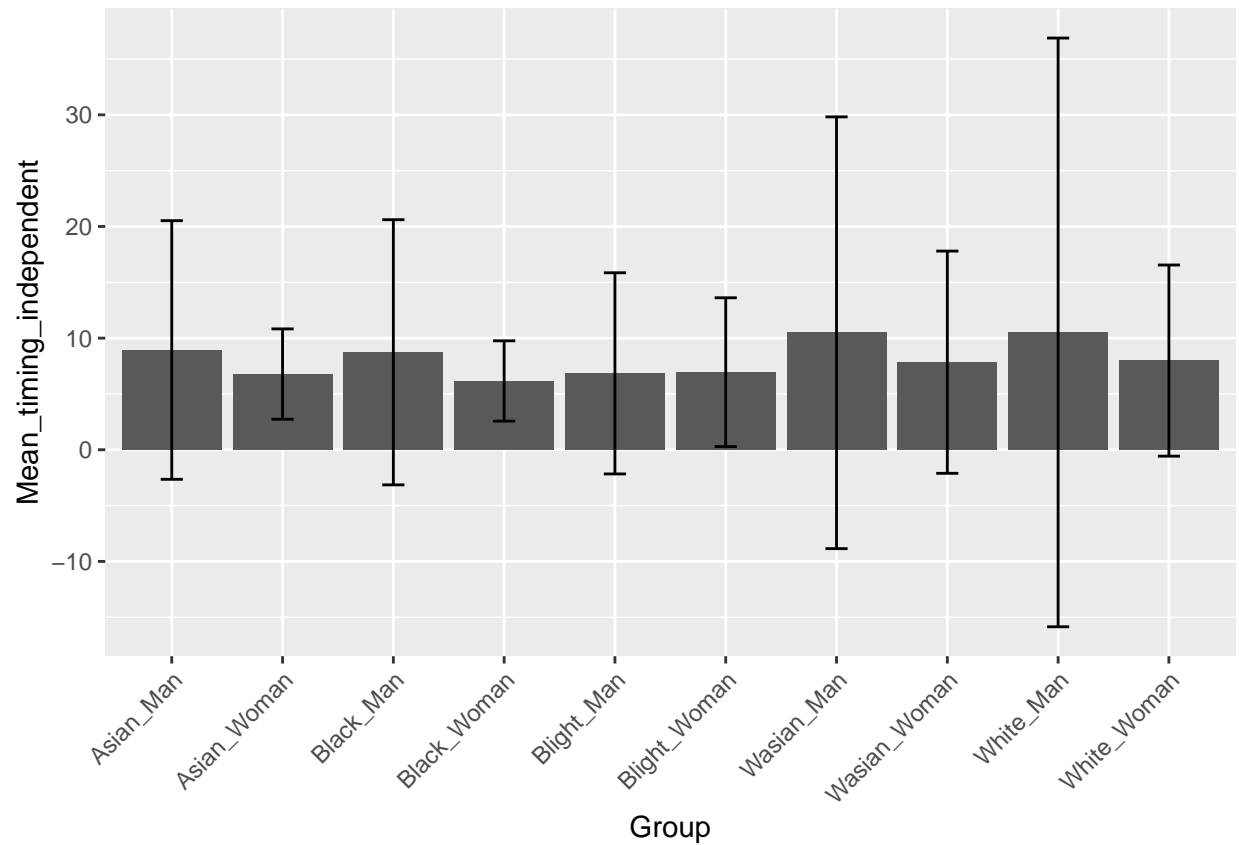




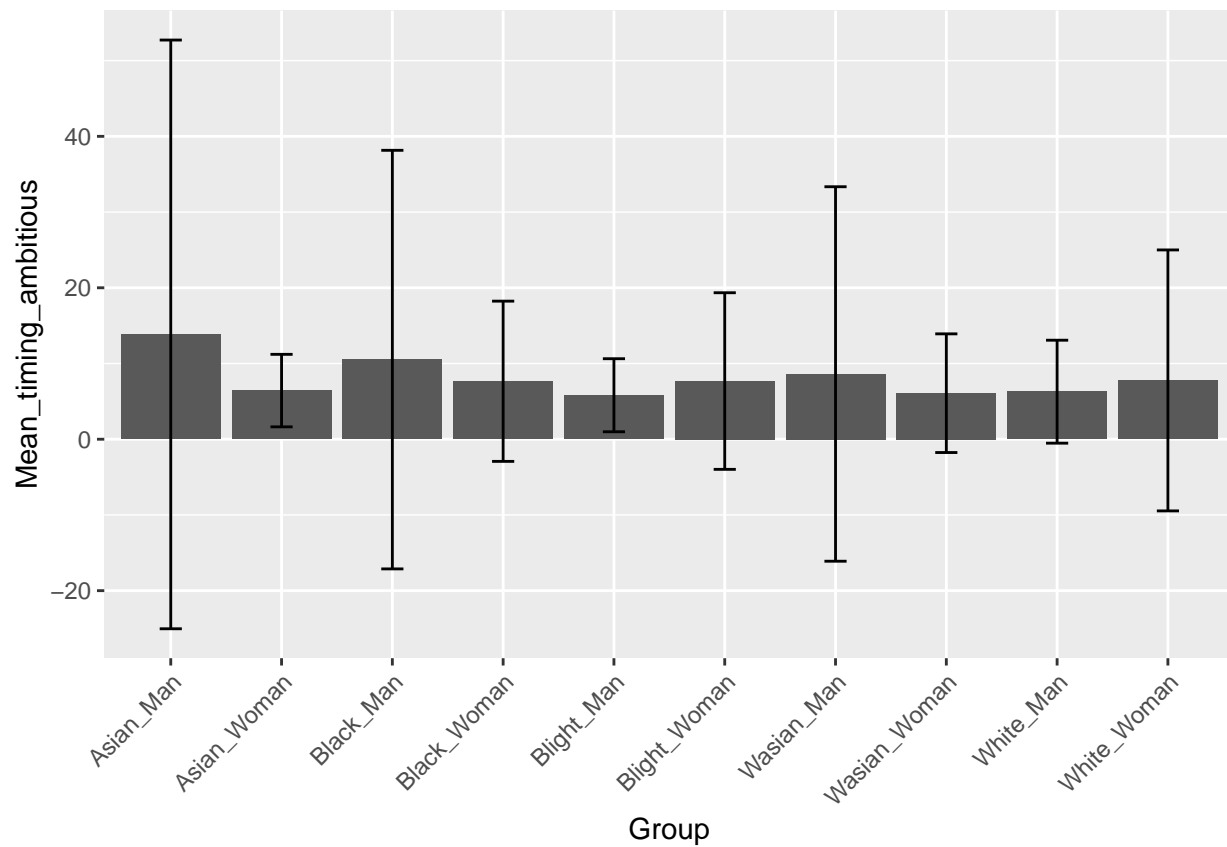
```
# item1 leader
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_leader)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_leader - Sd_timing_leader, ymax = Mean_timing_leader + Sd_timing_leader,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



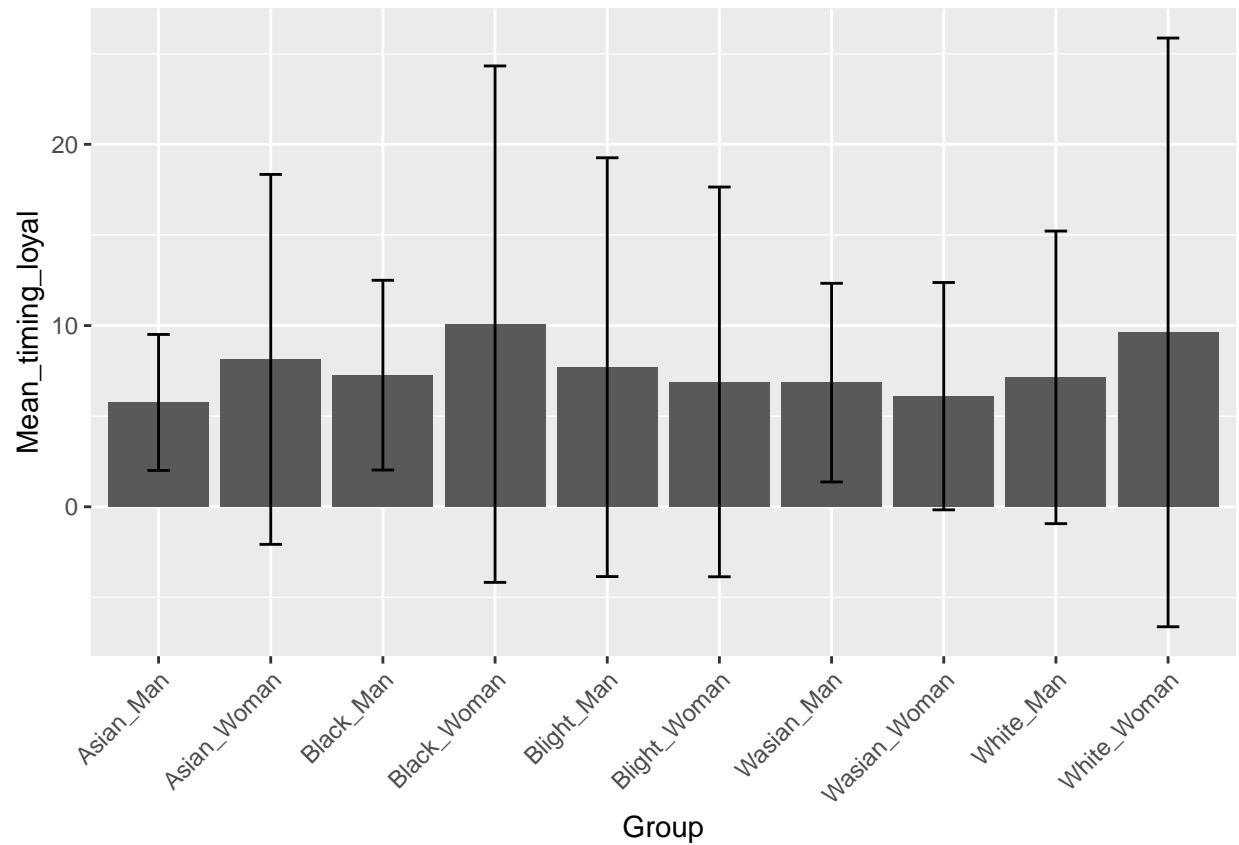
```
#item2 independent
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_independent)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_independent - Sd_timing_independent, ymax = Mean_timing_independent + Sd_timing_independent,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



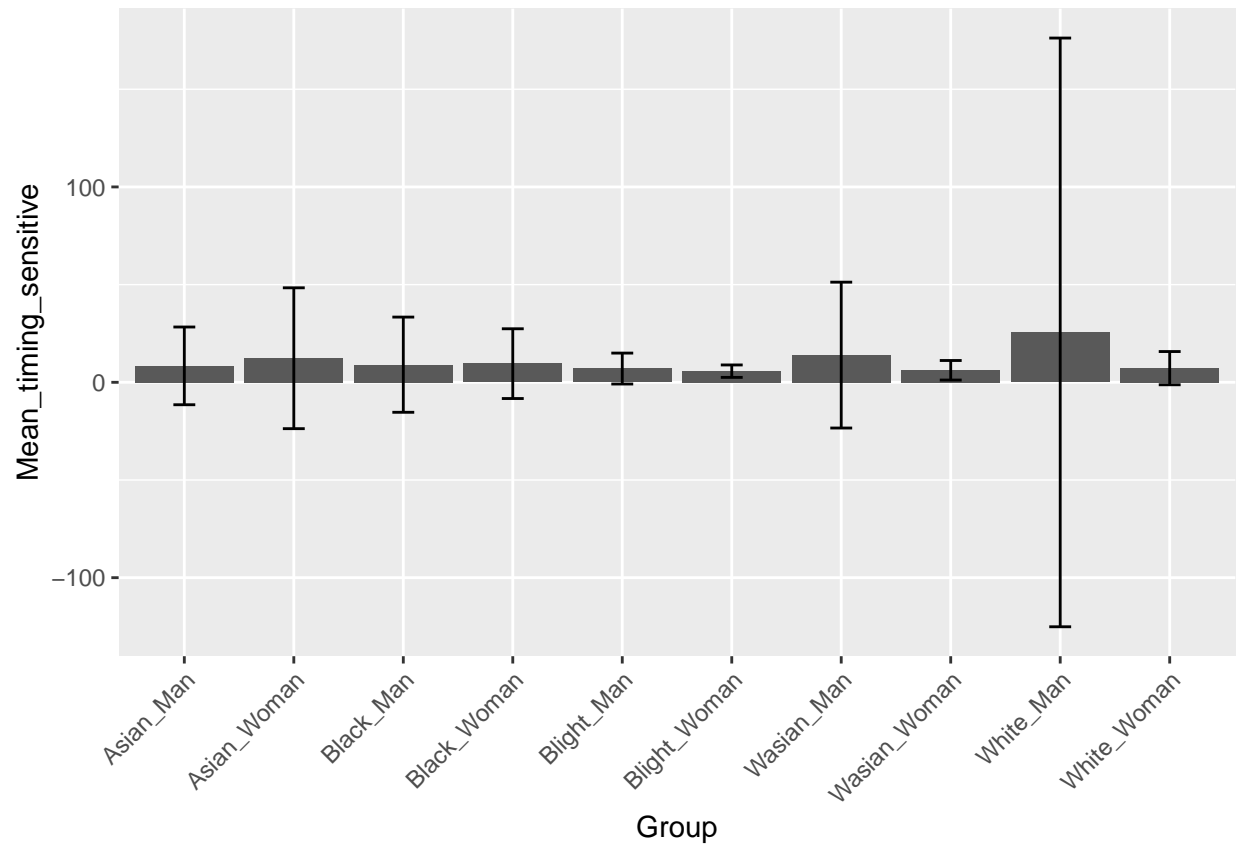
```
# item3 ambitious
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_ambitious)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_ambitious - Sd_timing_ambitious, ymax = Mean_timing_ambitious + Sd_timing_ambitious,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



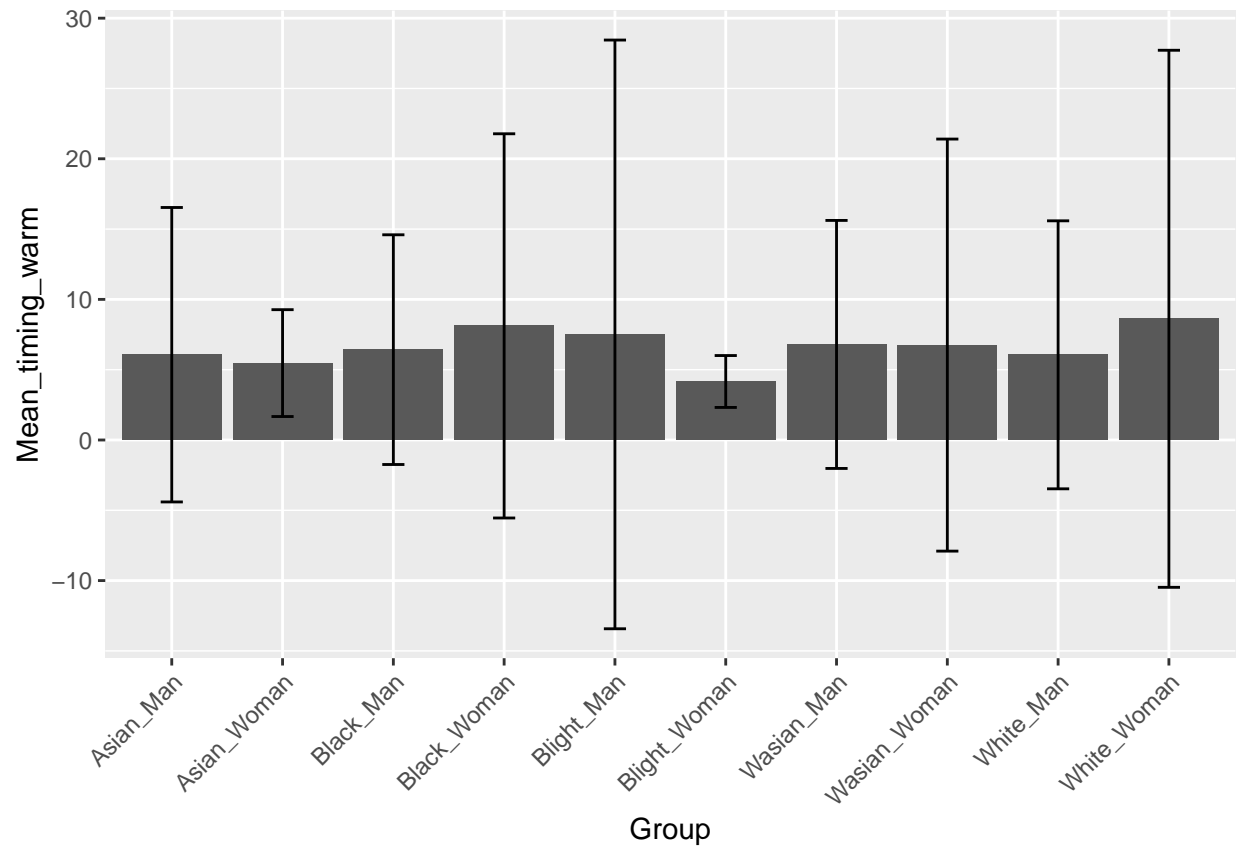
```
# item4 loyal
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_loyal)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_loyal - Sd_timing_loyal, ymax = Mean_timing_loyal + Sd_timing_loyal,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



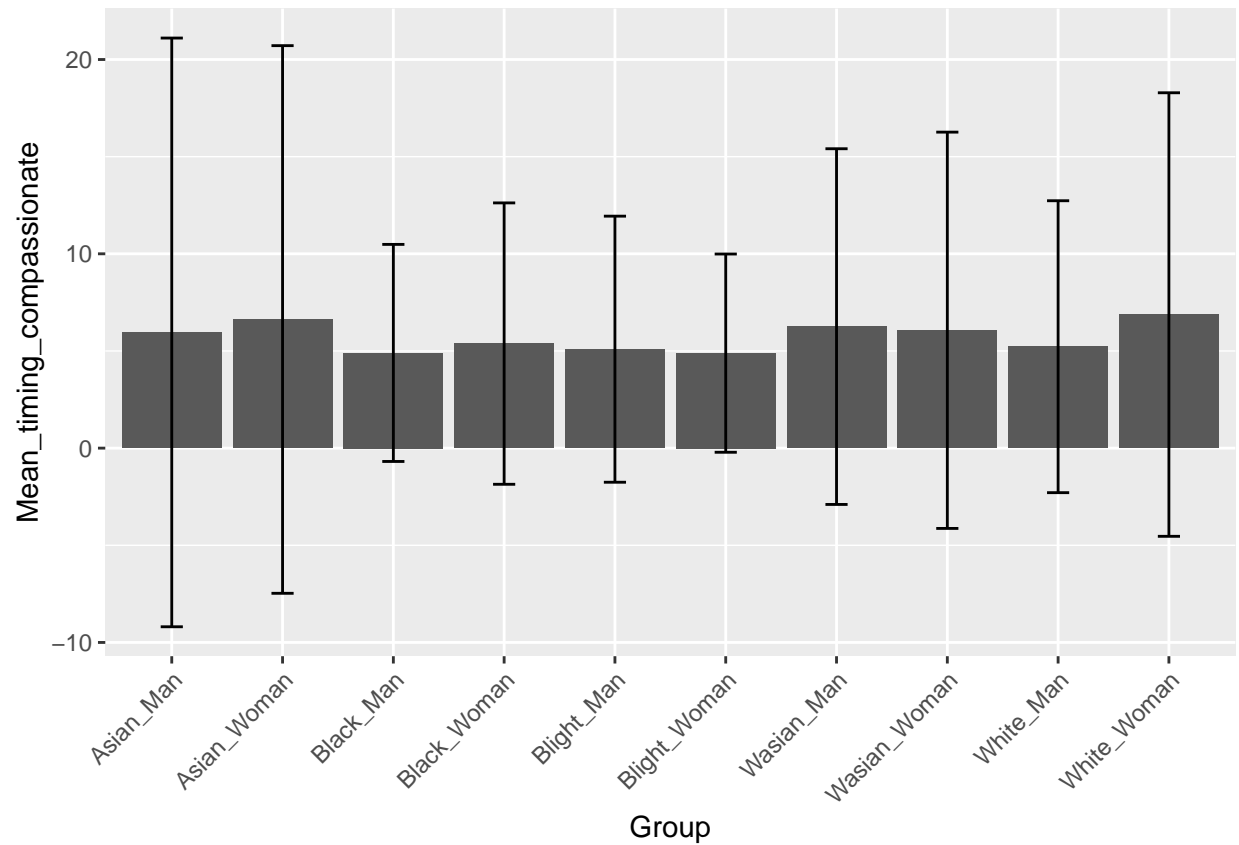
```
# item5 sensitive
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_sensitive)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_sensitive - Sd_timing_sensitive, ymax = Mean_timing_sensitive + Sd_timing_sensitive,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
# item6 warm
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_warm)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_warm - Sd_timing_warm, ymax = Mean_timing_warm + Sd_timing_warm),
    width = 0.2, position = position_dodge(width = 0.5)) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

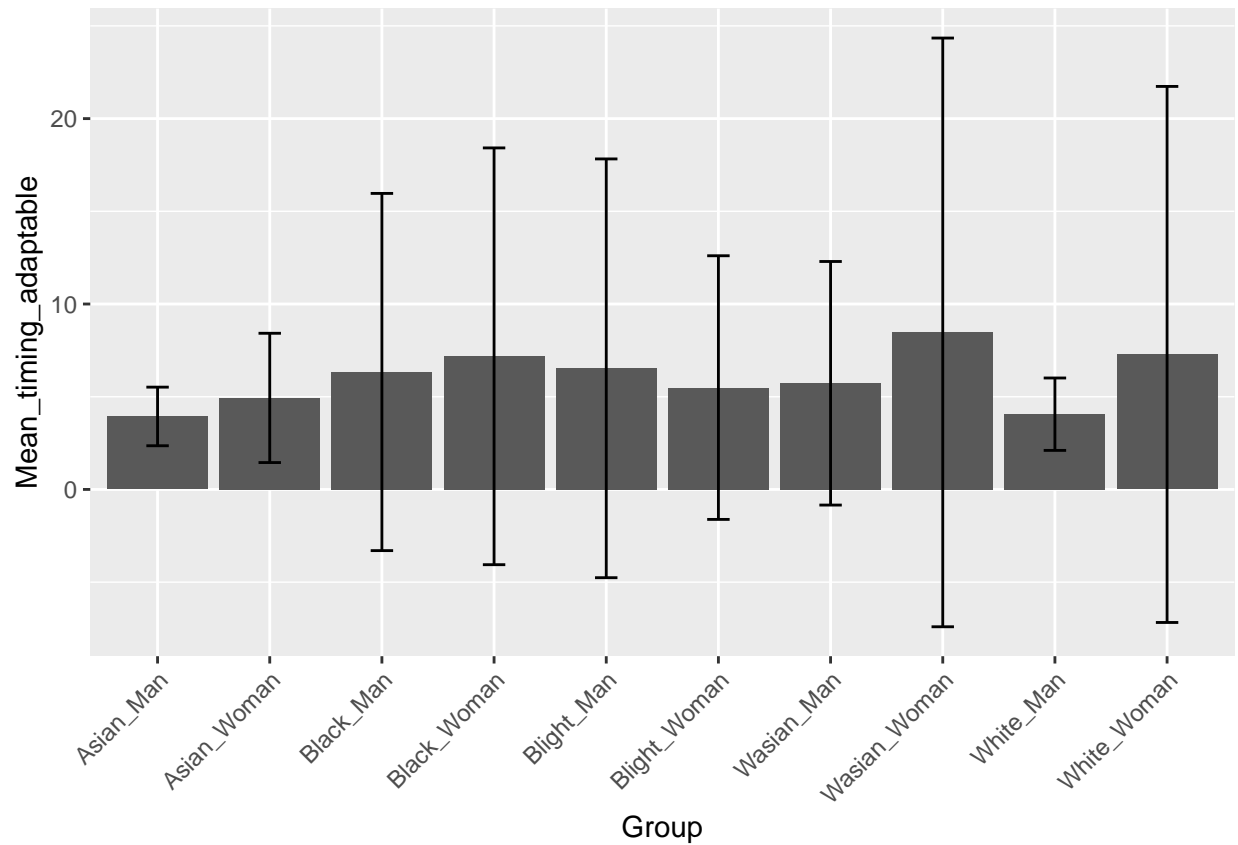


```
# item7 compassionate
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_compassionate)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_compassionate - Sd_timing_compassionate, ymax = Mean_timing_compassionate + Sd_timing_compassionate,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

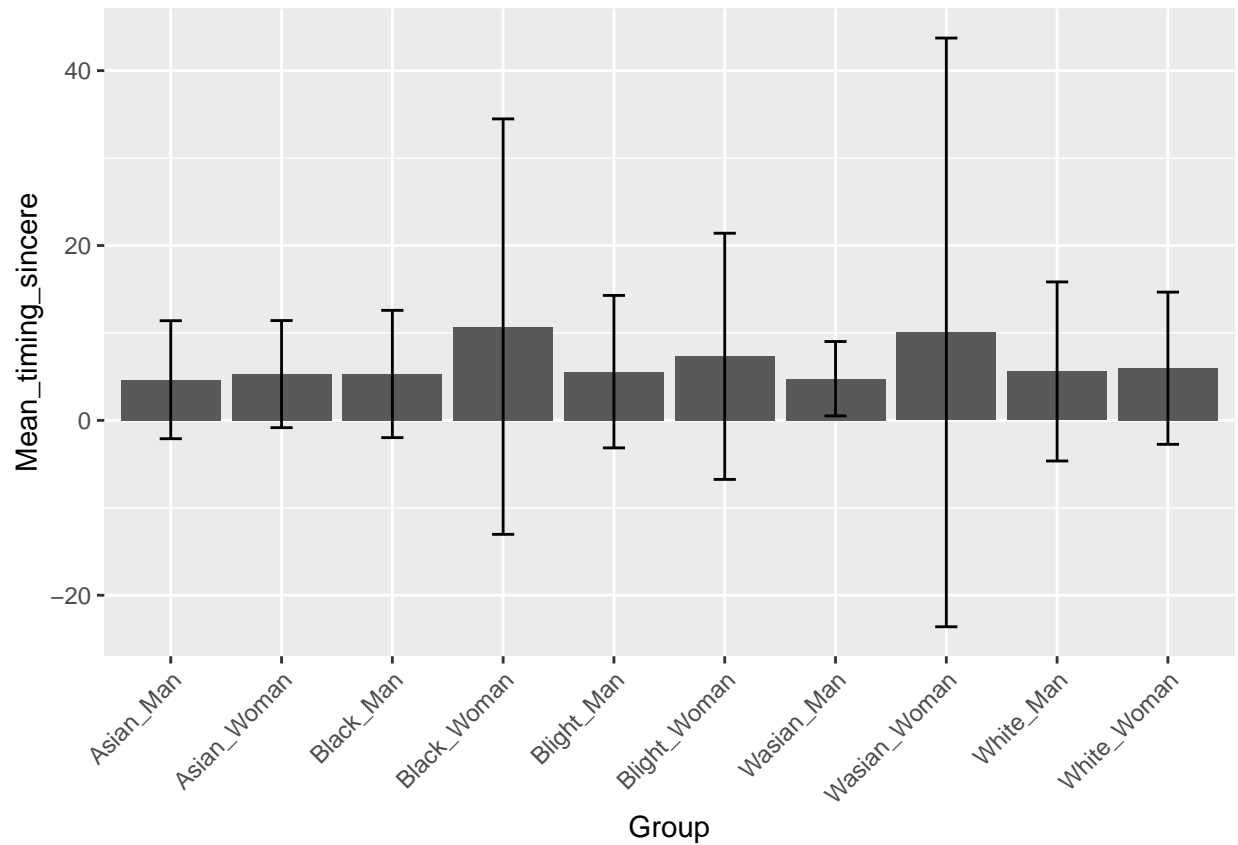


```
# item8 adaptable
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_adaptable)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_adaptable - Sd_timing_adaptable, ymax = Mean_timing_adaptable + Sd_timing_adaptable,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

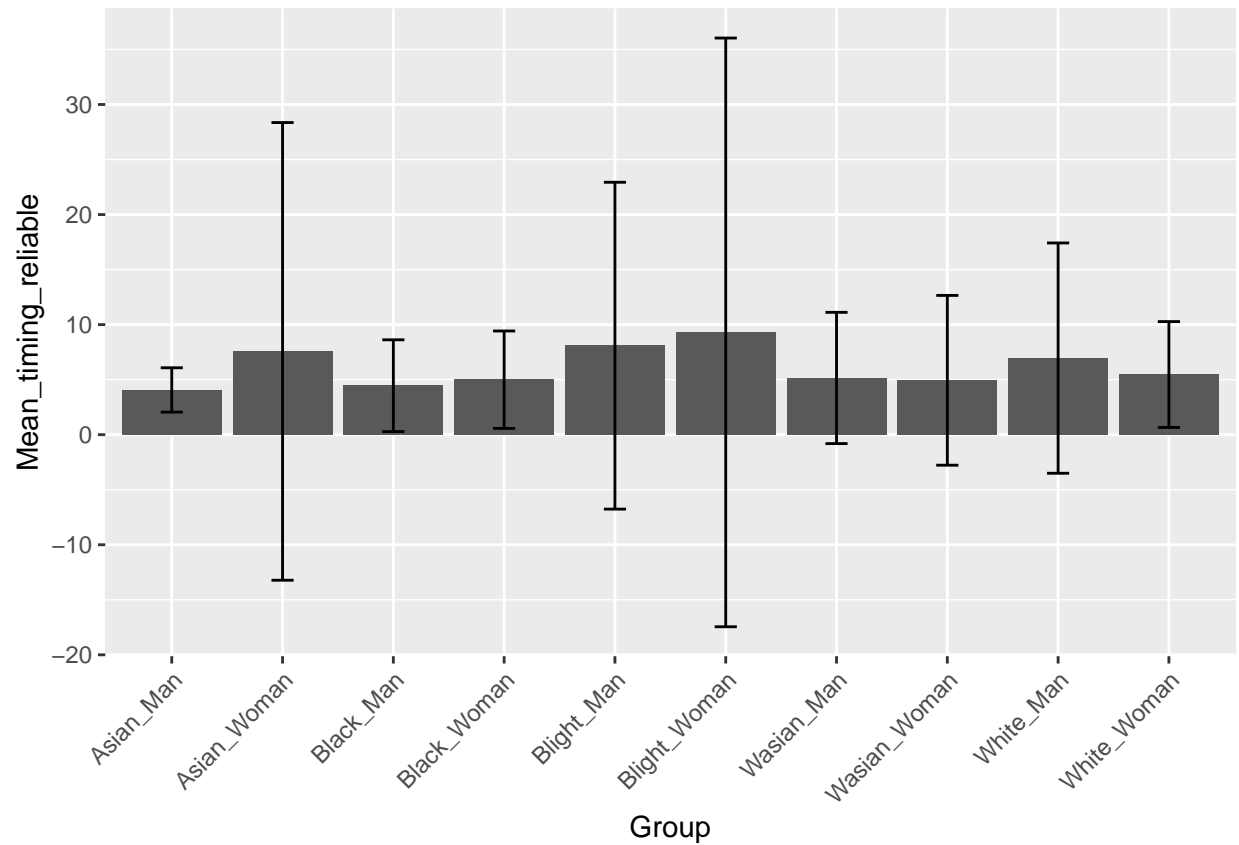




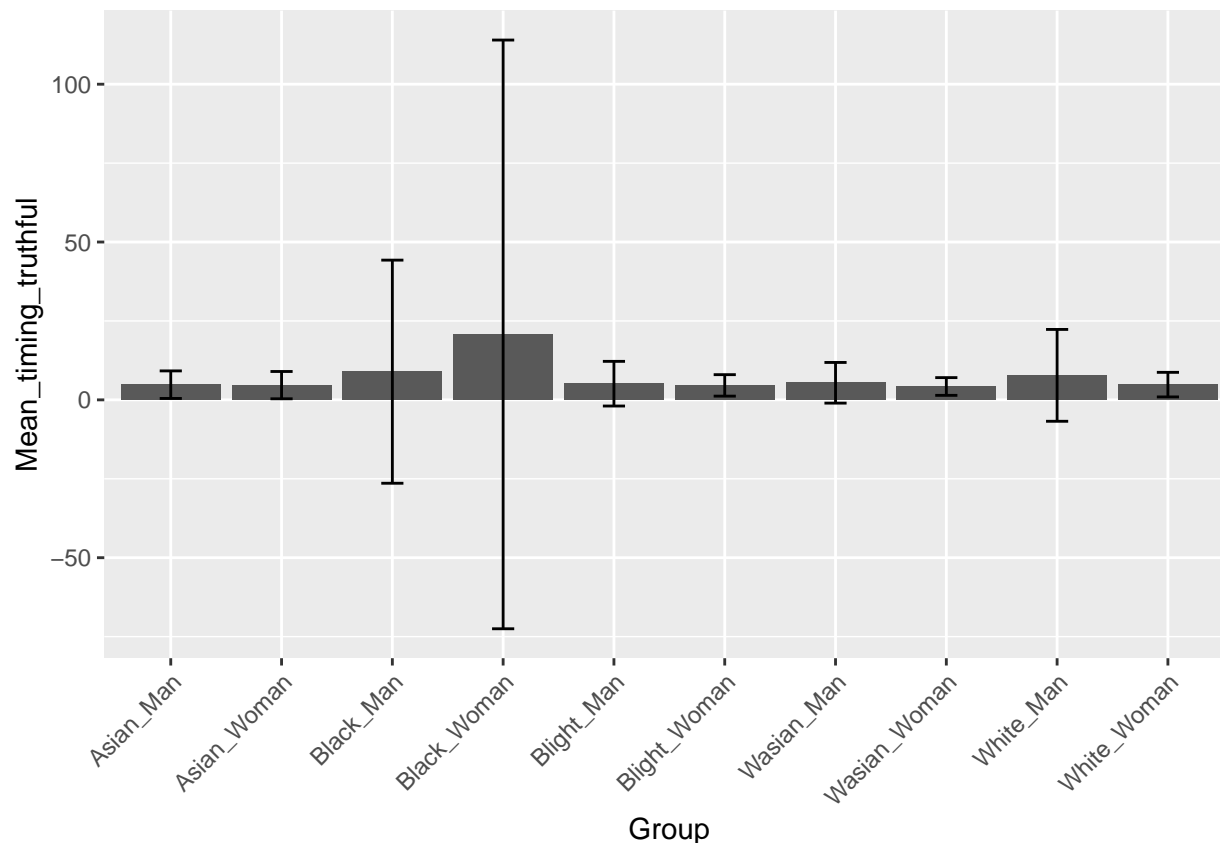
```
# item9 sincere
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_sincere)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_sincere - Sd_timing_sincere, ymax = Mean_timing_sincere + Sd_timing_sincere,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
# item10 reliable
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_reliable)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_reliable - Sd_timing_reliable, ymax = Mean_timing_reliable + Sd_
                    width = 0.2, position = position_dodge(width = 0.5)) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
# item11 truthful
item_wise_response_time_bygroup %>%
  ggplot(aes(x = Group, y = Mean_timing_truthful)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_timing_truthful - Sd_timing_truthful, ymax = Mean_timing_truthful + Sd_
                    width = 0.2, position = position_dodge(width = 0.5)) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
mean_item_rating_bygroup <- new_df %>%
  group_by(Group) %>%
  summarise(Mean_item1_leader = mean(item1_leader), Sd_item1_leader = sd(item1_leader),
    Mean_item2_independent = mean(item2_independent), Sd_item2_independent = sd(item2_independent),
    Mean_item3_ambitious = mean(item3_ambitious), Sd_item3_ambitious = sd(item3_ambitious),
    Mean_item4_loyal = mean(item4_loyal), Sd_item4_loyal = sd(item4_loyal),
    Mean_item5_sensitive = mean(item5_sensitive), Sd_item5_sensitive = sd(item5_sensitive),
    Mean_item6_warm = mean(item6_warm), Sd_item6_warm = sd(item6_warm),
    Mean_item7_compassionate = mean(item7_compassionate), Sd_item7_compassionate = sd(item7_compassionate),
    Mean_item8_adaptable = mean(item8_adaptable), Sd_item8_adaptable = sd(item8_adaptable),
    Mean_item9_sincere = mean(item9_sincere), Sd_item9_sincere = sd(item9_sincere),
    Mean_item10_reliable = mean(item10_reliable), Sd_item10_reliable = sd(item10_reliable),
    Mean_item11_truthful = mean(item11_truthful), Sd_item11_truthful = sd(item11_truthful))
mean_item_rating_bygroup
```

```
## # A tibble: 10 x 23
##   Group      Mean_item1_leader Sd_item1_leader Mean_item2_independent
##   <fct>          <dbl>          <dbl>          <dbl>
## 1 Asian_Man      5.58            1.24            5.81
## 2 Asian_Woman    5.6             1.06            5.58
## 3 Black_Man      5.57            1.35            5.7
## 4 Black_Woman    5.9             1.02            5.83
## 5 Blight_Man     6.02            0.852           5.90
## 6 Blight_Woman   5.82            0.840           5.85
## 7 Wasian_Man     5.94            0.965           5.90
```

```
## 8 Wasian_Woman          5.63          0.938          5.83
## 9 White_Man             5.59          1.04          5.76
## 10 White_Woman          5.72          1.03          5.92
## # i 19 more variables: Sd_item2_independent <dbl>, Mean_item3_ambitious <dbl>,
## #   Sd_item3_ambitious <dbl>, Mean_item4_loyal <dbl>, Sd_item4_loyal <dbl>,
## #   Mean_item5_sensitive <dbl>, Sd_item5_sensitive <dbl>,
## #   Mean_item6_warm <dbl>, Sd_item6_warm <dbl>, Mean_item7_compassionate <dbl>,
## #   Sd_item7_compassionate <dbl>, Mean_item8_adaptable <dbl>,
## #   Sd_item8_adaptable <dbl>, Mean_item9_sincere <dbl>, Sd_item9_sincere <dbl>,
## #   Mean_item10_reliable <dbl>, Sd_item10_reliable <dbl>, ...
```

```
## histogram
```

```
mean_item_rating_bygroup %>%
```

```
  ggplot(aes(x = Group, y = Mean_item1_leader)) +
```

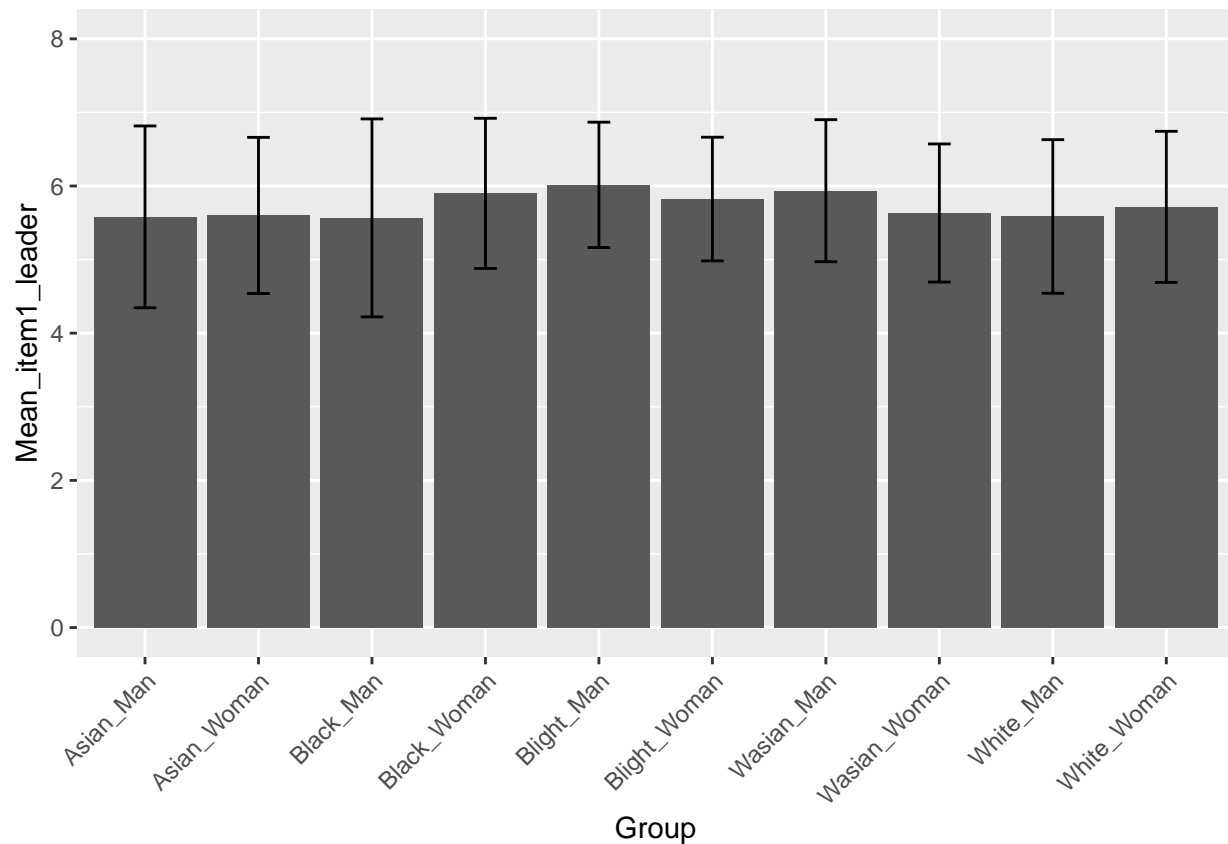
```
  geom_col() +
```

```
  geom_errorbar(aes(ymin = Mean_item1_leader - Sd_item1_leader, ymax = Mean_item1_leader + Sd_item1_leader,
```

```
                    width = 0.2, position = position_dodge(width = 0.5)) +
```

```
  ylim(0, 8) +
```

```
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
# item1 leader
```

```
mean_item_rating_bygroup %>%
```

```
  ggplot(aes(x = Group, y = Mean_item2_independent)) +
```

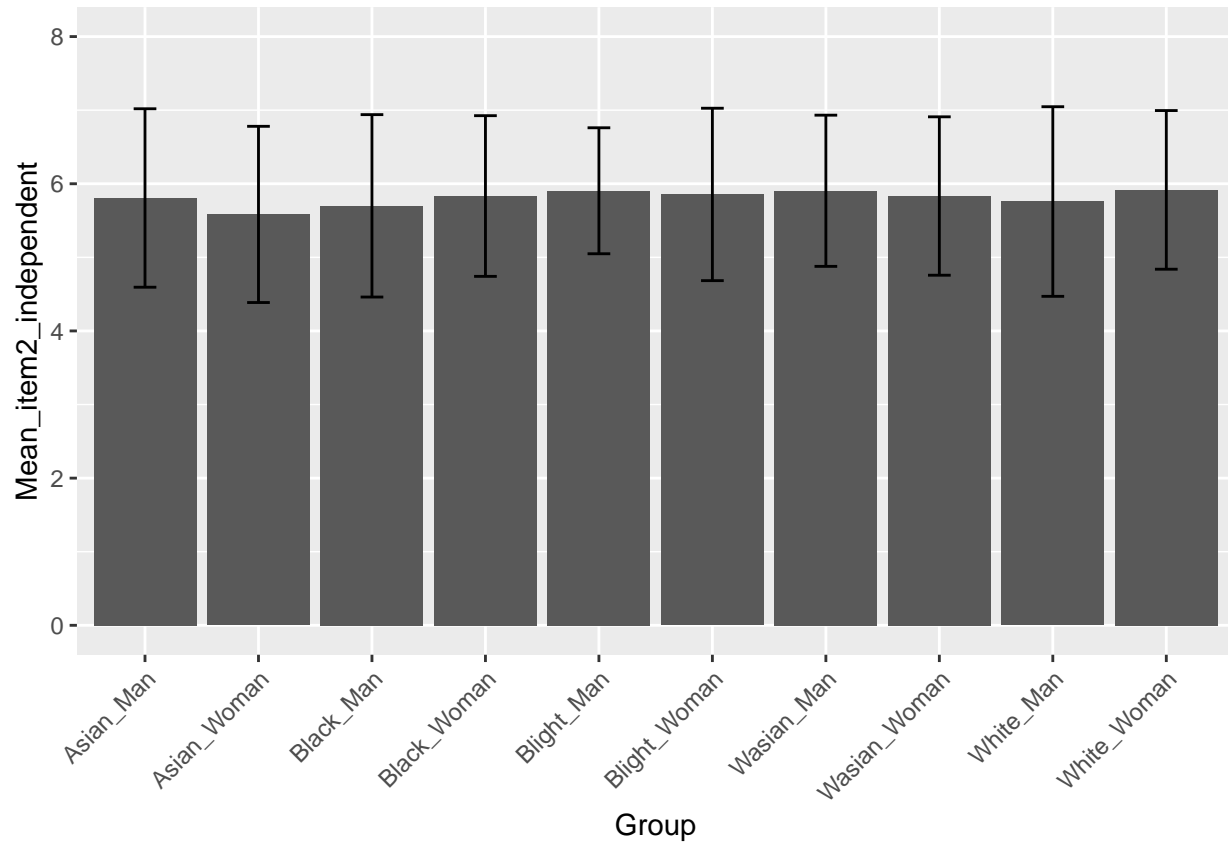
```
  geom_col() +
```

```
  geom_errorbar(aes(ymin = Mean_item2_independent - Sd_item2_independent, ymax = Mean_item2_independent
```

```

width = 0.2, position = position_dodge(width = 0.5)) +
ylim(0, 8) +
theme(axis.text.x = element_text(angle = 45, hjust = 1))

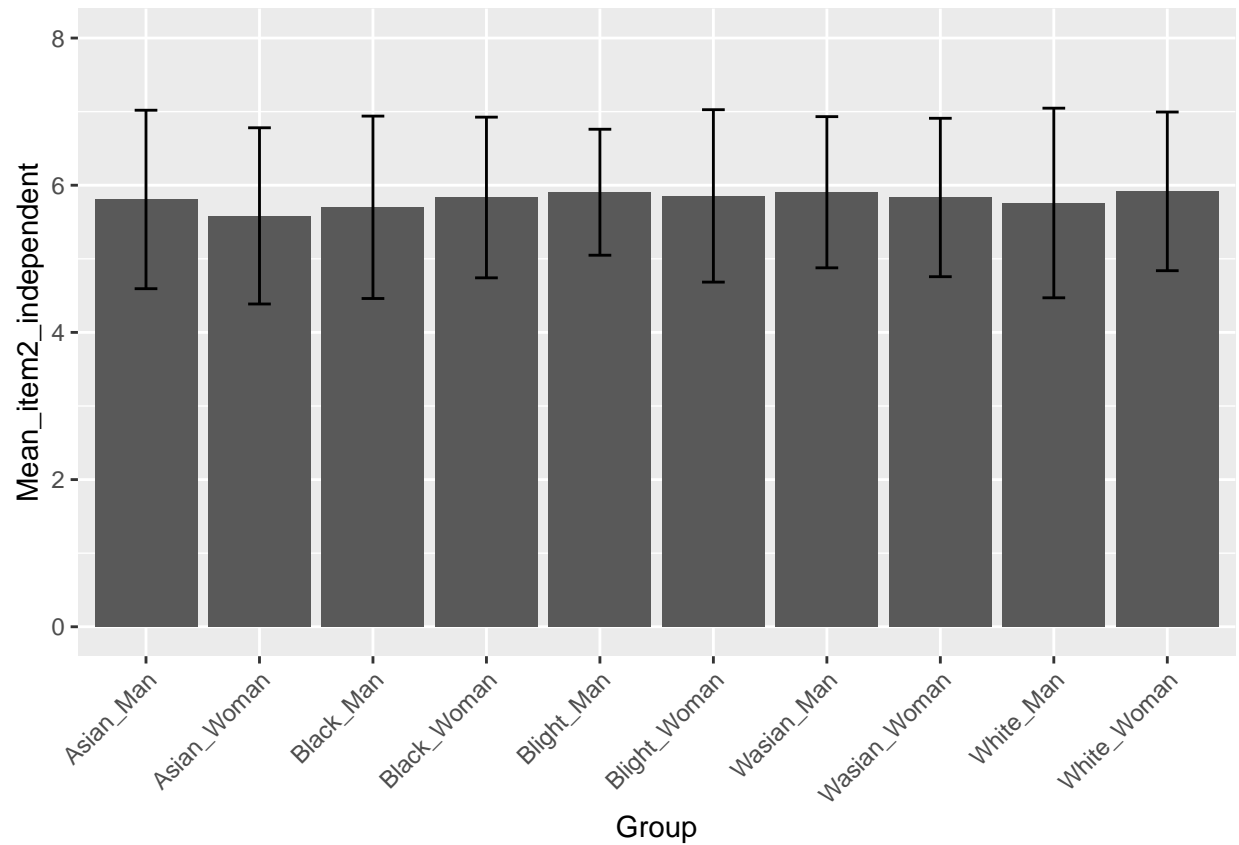
```



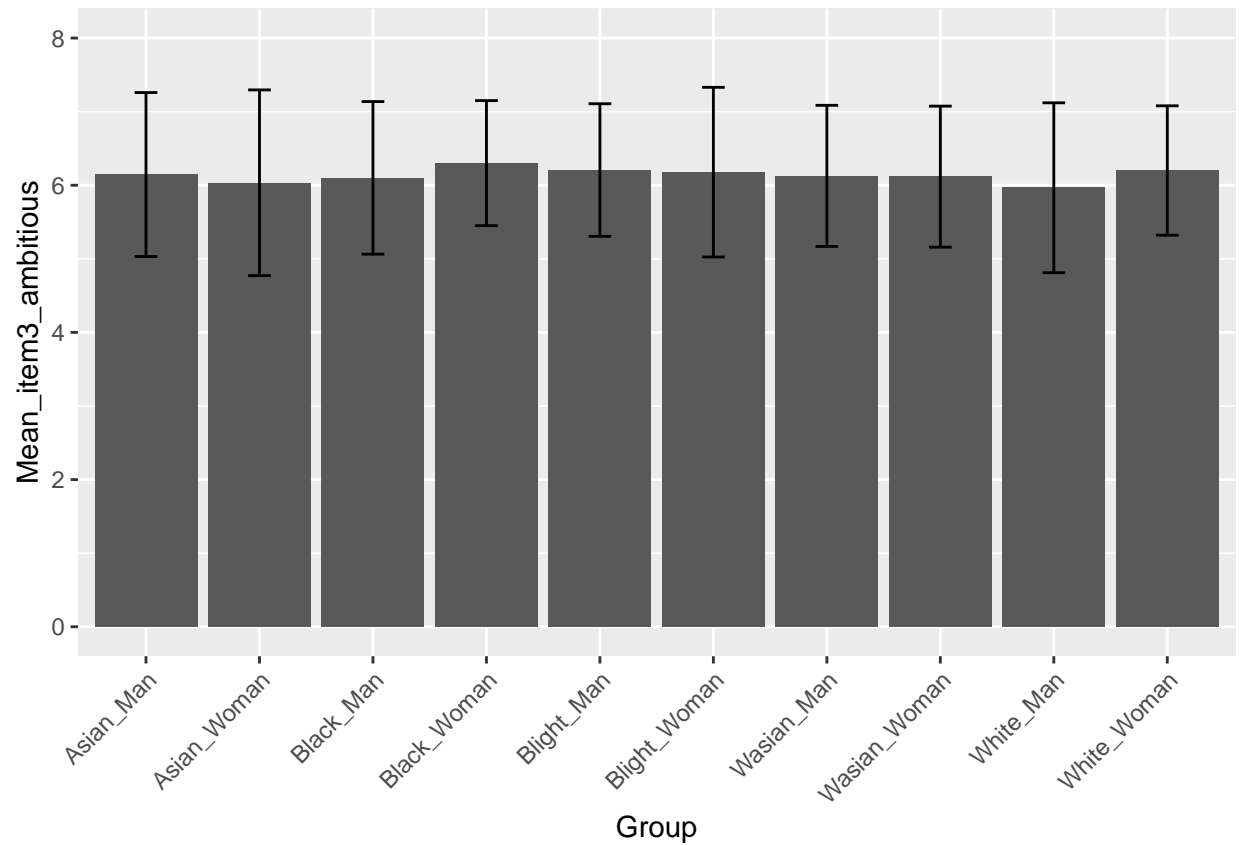
```

#item2 independent
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item2_independent)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item2_independent - Sd_item2_independent, ymax = Mean_item2_independent +
                    Sd_item2_independent,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))

```

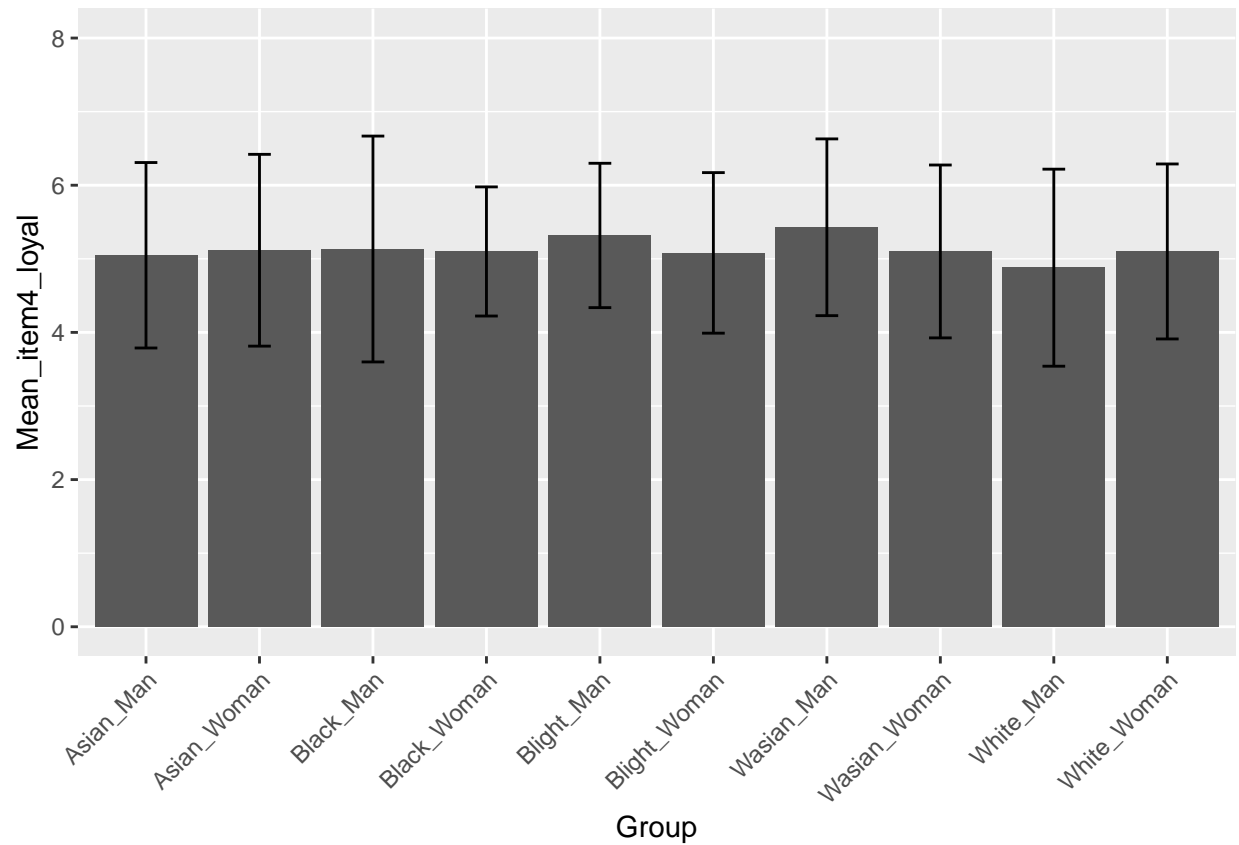


```
# item3 ambitious
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item3_ambitious)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item3_ambitious - Sd_item3_ambitious, ymax = Mean_item3_ambitious + Sd_
                  width = 0.2, position = position_dodge(width = 0.5)) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

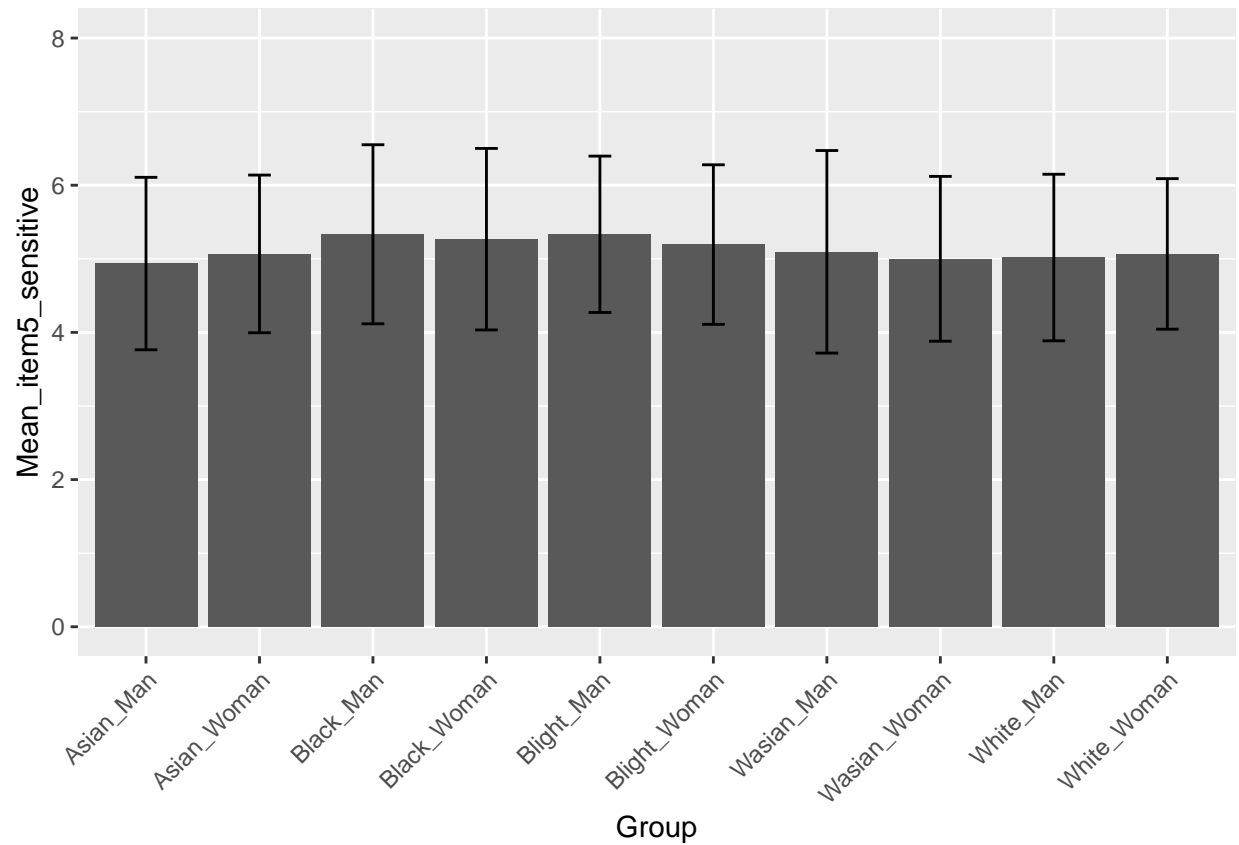


```
# item4 loyal
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item4_loyal)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item4_loyal - Sd_item4_loyal, ymax = Mean_item4_loyal + Sd_item4_loyal),
    width = 0.2, position = position_dodge(width = 0.5)) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

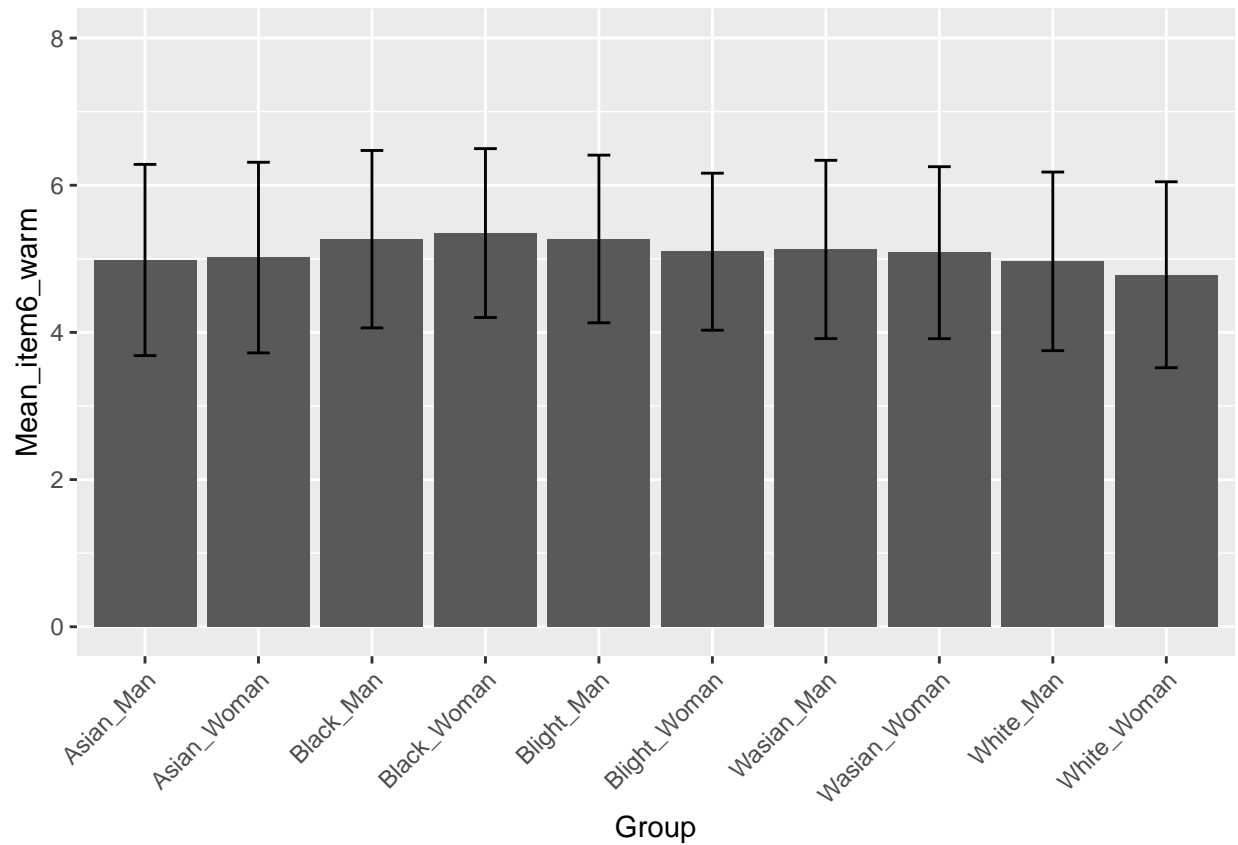




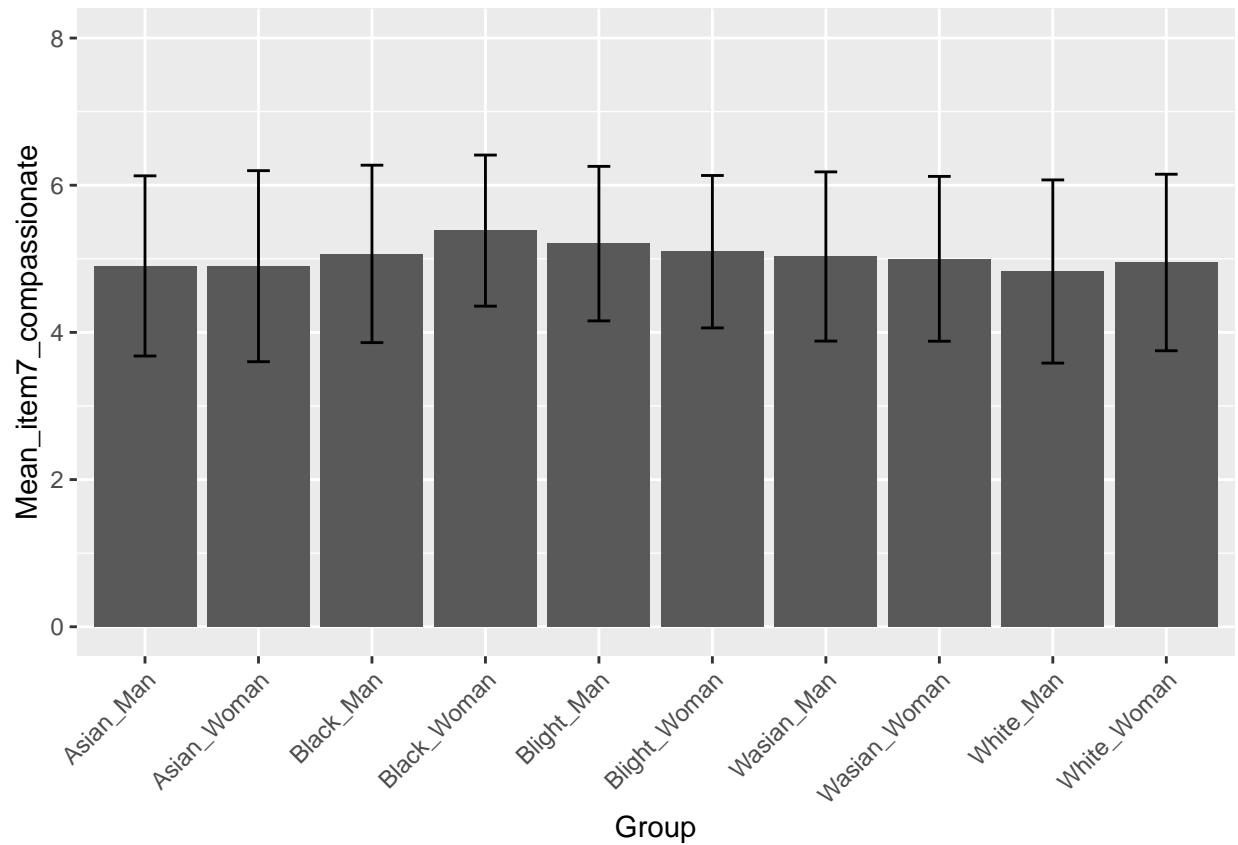
```
# item5 sensitive
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item5_sensitive)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item5_sensitive - Sd_item5_sensitive, ymax = Mean_item5_sensitive + Sd_item5_sensitive,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



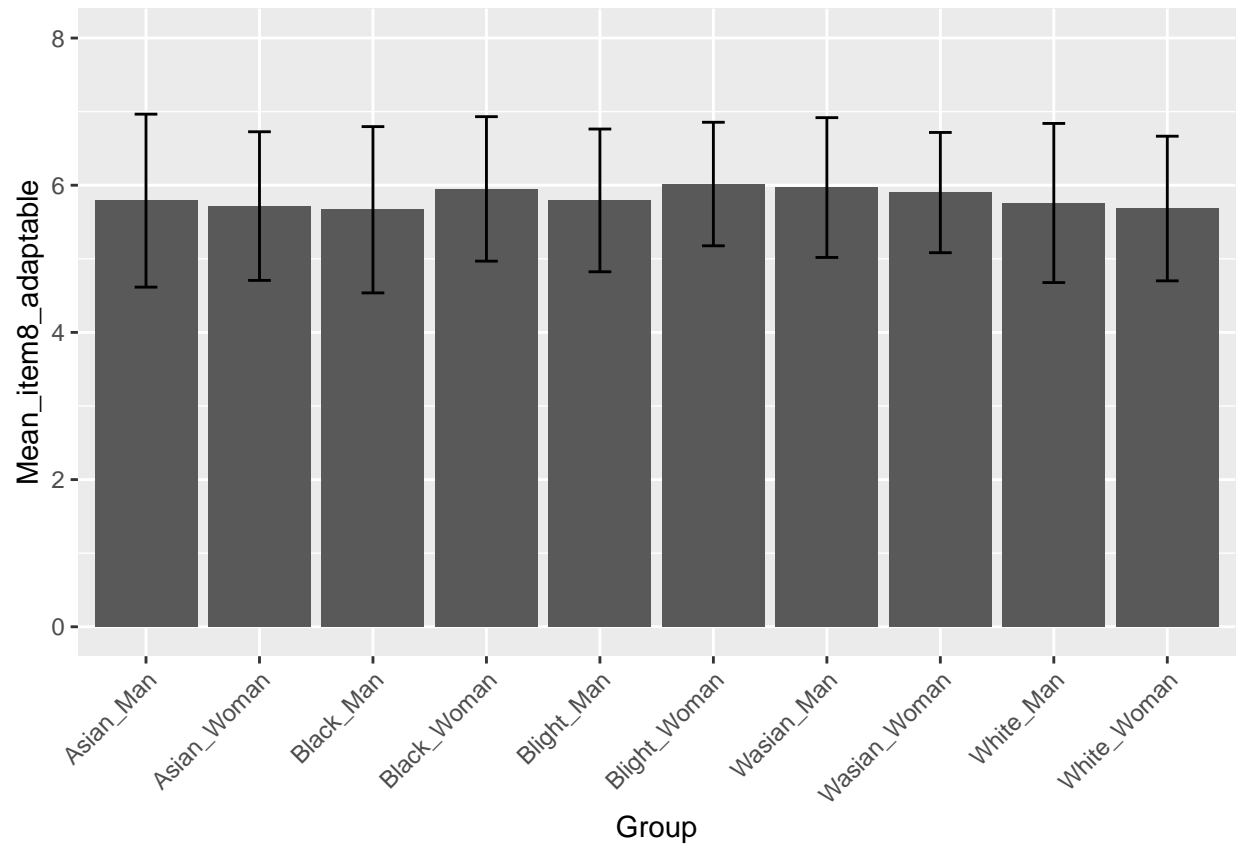
```
# item6 warm
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item6_warm)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item6_warm - Sd_item6_warm, ymax = Mean_item6_warm + Sd_item6_warm),
    width = 0.2, position = position_dodge(width = 0.5)) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



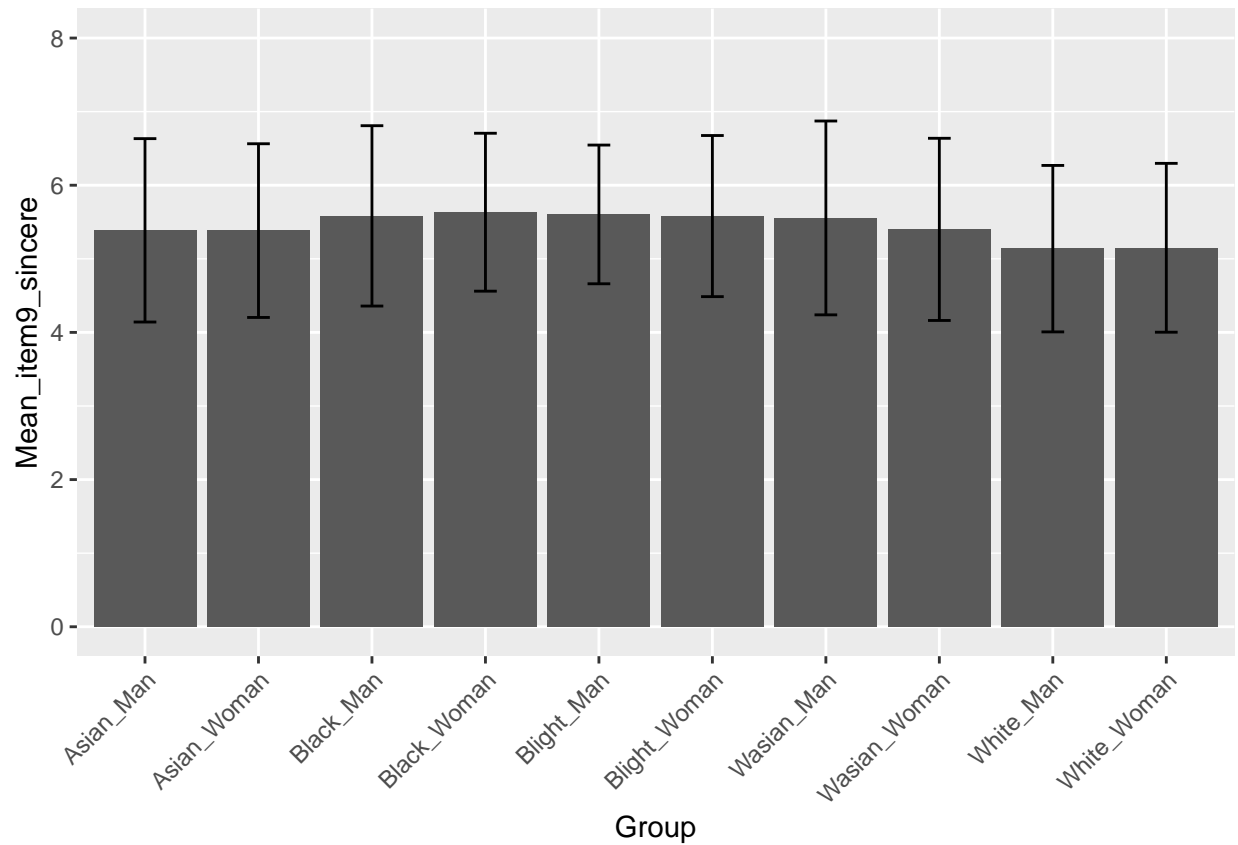
```
# item7 compassionate
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item7_compassionate)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item7_compassionate - Sd_item7_compassionate, ymax = Mean_item7_compassionate + Sd_item7_compassionate,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



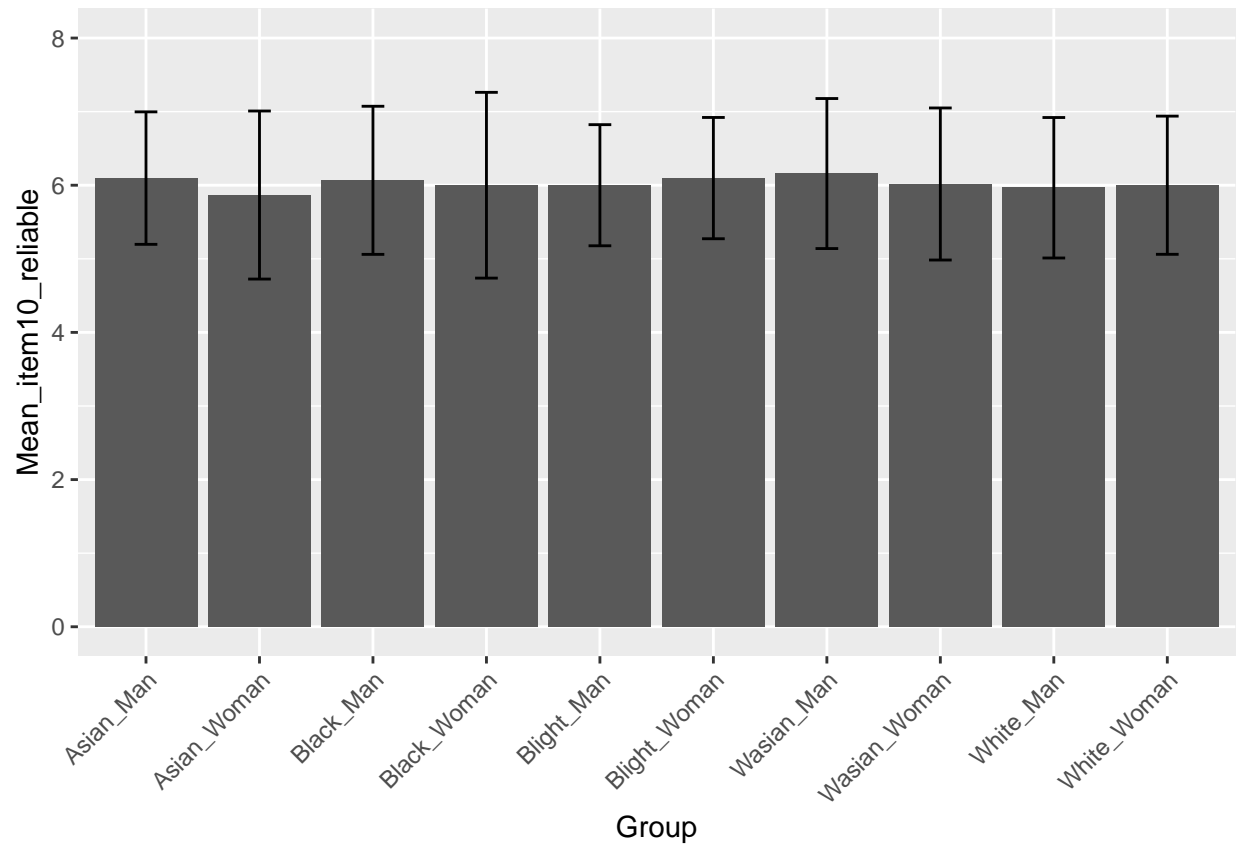
```
# item8 adaptable
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item8_adaptable)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item8_adaptable - Sd_item8_adaptable, ymax = Mean_item8_adaptable + Sd_item8_adaptable,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



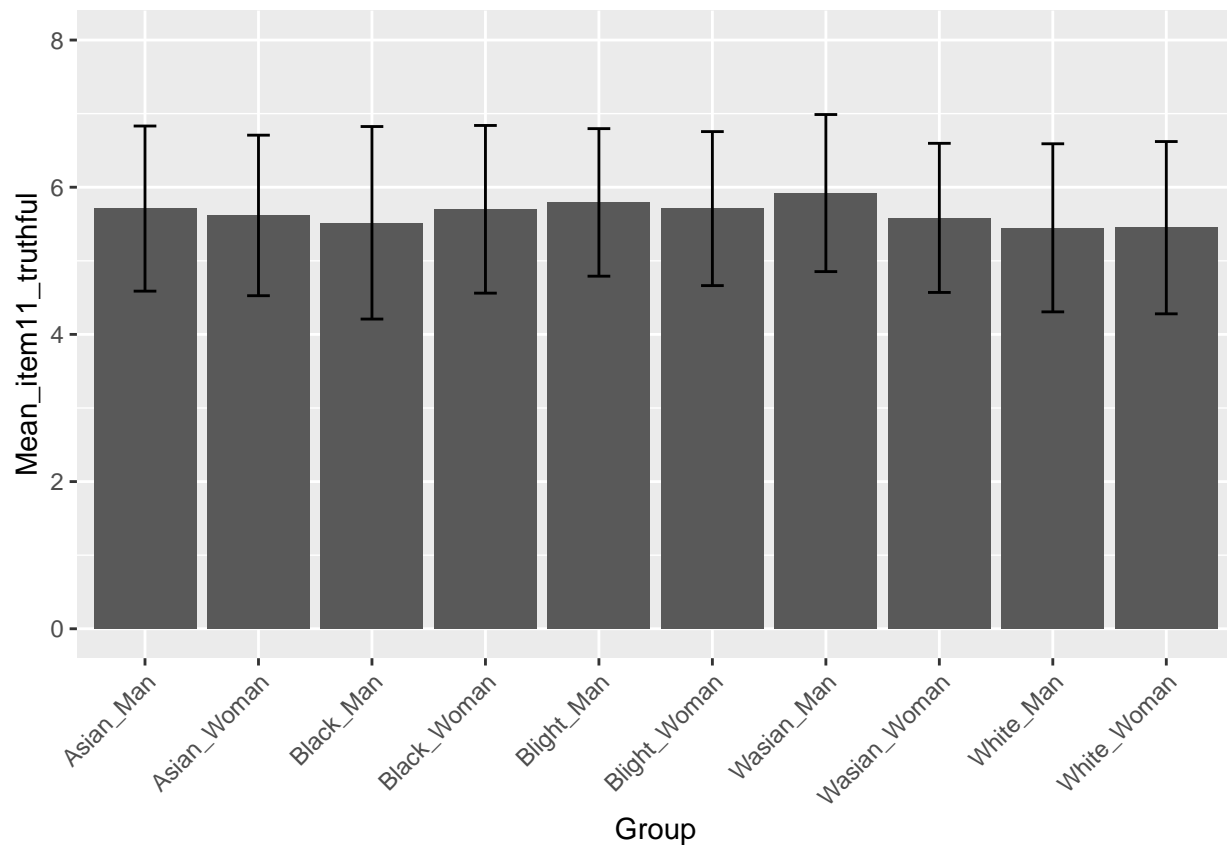
```
# item9 sincere
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item9_sincere)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item9_sincere - Sd_item9_sincere, ymax = Mean_item9_sincere + Sd_item9_sincere,
                    width = 0.2, position = position_dodge(width = 0.5))) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
# item10 reliable
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item10_reliable)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item10_reliable - Sd_item10_reliable, ymax = Mean_item10_reliable + Sd_
                    width = 0.2, position = position_dodge(width = 0.5)) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
# item11 truthful
mean_item_rating_bygroup %>%
  ggplot(aes(x = Group, y = Mean_item11_truthful)) +
  geom_col() +
  geom_errorbar(aes(ymin = Mean_item11_truthful - Sd_item11_truthful, ymax = Mean_item11_truthful + Sd_
                    width = 0.2, position = position_dodge(width = 0.5)) +
  ylim(0, 8) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



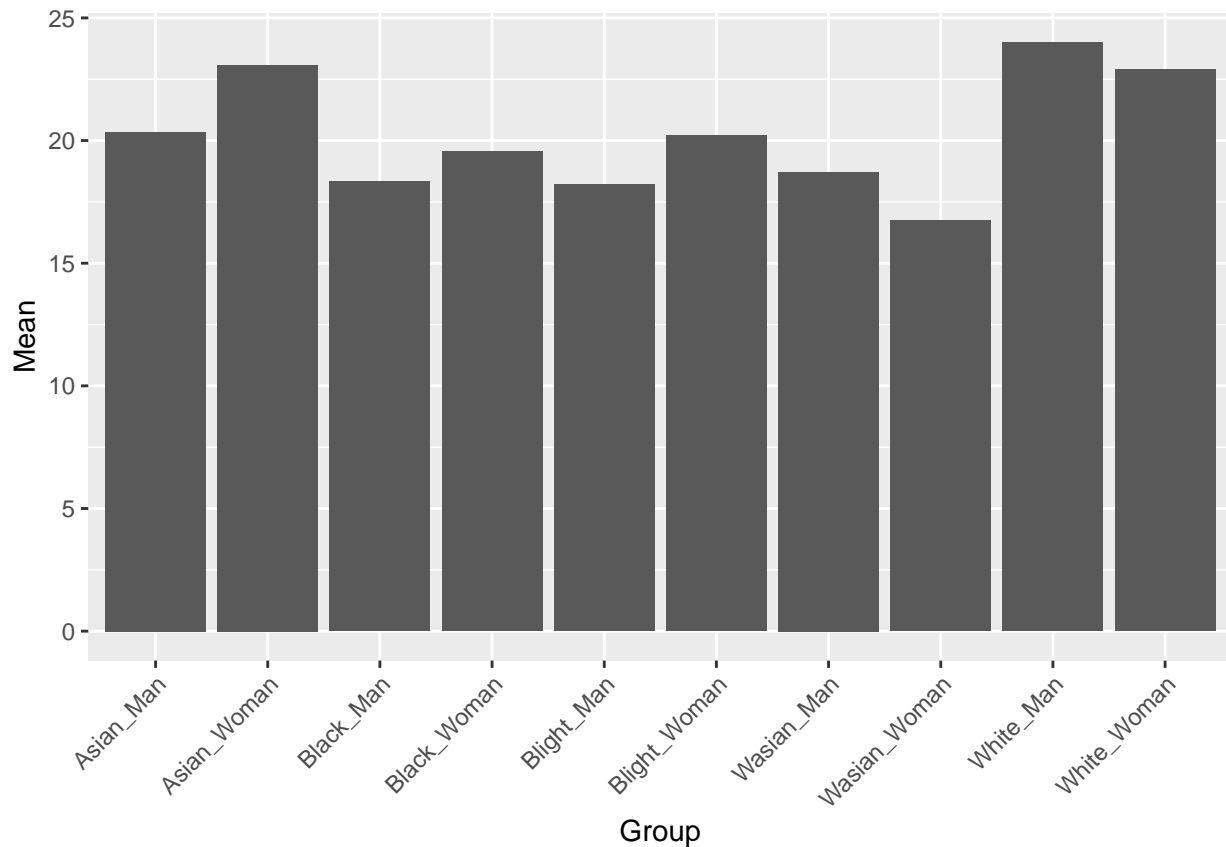
```
new_df <- new_df %>%
  mutate(sum_click_count = click_count_leader + click_count_independent + click_count_ambitious + click_count_sensitive + click_count_warm + click_count_compassionate + click_count_sincere + click_count_reliable + click_count_truthful)

Mean_total_click_count <- new_df %>%
  group_by(Group) %>%
  summarise(Mean = mean(sum_click_count), Sd = sd(sum_click_count))
Mean_total_click_count
```

```
## # A tibble: 10 x 3
##   Group      Mean    Sd
##   <fct>    <dbl> <dbl>
## 1 Asian_Man  20.4  12.2
## 2 Asian_Woman 23.1  14.1
## 3 Black_Man   18.3  11.4
## 4 Black_Woman 19.6  12.6
## 5 Blight_Man  18.2  12.7
## 6 Blight_Woman 20.2  13.0
## 7 Wasian_Man  18.7  11.3
## 8 Wasian_Woman 16.7   7.73
## 9 White_Man   24    14.6
## 10 White_Woman 22.9  16.6
```



```
Mean_total_click_count %>%
  ggplot(aes(x = Group, y = Mean)) +
  geom_col() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```



```
Mean_click_count <- new_df %>%
  group_by(Group) %>%
  summarise(mean_cc_leader = mean(click_count_leader), sd_cc_leader = sd(click_count_leader),
            mean_cc_independent = mean(click_count_independent), sd_cc_independent = sd(click_count_independent),
            mean_cc_ambitious = mean(click_count_ambitious), sd_cc_ambitious = sd(click_count_ambitious),
            mean_cc_loyal = mean(click_count_loyal), sd_cc_loyal = sd(click_count_loyal),
            mean_cc_sensitive = mean(click_count_sensitive), sd_cc_sensitive = sd(click_count_sensitive),
            mean_cc_warm = mean(click_count_warm), sd_cc_warm = sd(click_count_warm),
            mean_cc_compassionate = mean(click_count_compassionate), sd_cc_compassionate = sd(click_count_compassionate),
            mean_cc_adaptable = mean(click_count_adaptable), sd_cc_adaptable = sd(click_count_adaptable),
            mean_cc_sincere = mean(click_count_sincere), sd_cc_sincere = sd(click_count_sincere),
            mean_cc_reliable = mean(click_count_reliable), sd_cc_reliable = sd(click_count_reliable),
            mean_cc_truthful = mean(click_count_truthful), sd_cc_truthful = sd(click_count_truthful))
```

Mean\_click\_count

```
## # A tibble: 10 x 23
##   Group      mean_cc_leader sd_cc_leader mean_cc_independent sd_cc_independent
##   <fct>          <dbl>         <dbl>          <dbl>          <dbl>
## 1 Asian_Man      2.26          2.07          2.08          1.71
```

```
## 2 Asian_Woman      2.57      1.95      2.17      1.61
## 3 Black_Man        1.9       1.24      1.73      1.19
## 4 Black_Woman      2.32      2.33      1.75      1.30
## 5 Blight_Man       1.81      1.59      1.67      1.30
## 6 Blight_Wom~     2.24      2.38      1.77      1.36
## 7 Wasian_Man       1.86      1.44      1.68      1.15
## 8 Wasian_Wom~     1.68      0.911     1.6       1.24
## 9 White_Man        2.72      2.33      2.33      1.55
## 10 White_Woman     2.47      2.23      2.08      1.89
## # i 18 more variables: mean_cc_ambitious <dbl>, sd_cc_ambitious <dbl>,
## #   mean_cc_loyal <dbl>, sd_cc_loyal <dbl>, mean_cc_sensitive <dbl>,
## #   sd_cc_sensitive <dbl>, mean_cc_warm <dbl>, sd_cc_warm <dbl>,
## #   mean_cc_compassionate <dbl>, sd_cc_compassionate <dbl>,
## #   mean_cc_adaptable <dbl>, sd_cc_adaptable <dbl>, mean_cc_sincere <dbl>,
## #   sd_cc_sincere <dbl>, mean_cc_reliable <dbl>, sd_cc_reliable <dbl>,
## #   mean_cc_truthful <dbl>, sd_cc_truthful <dbl>
```

## Hypothesis Testing

```
H1_m <- aov(masculinity ~ Group, data = new_df)
summary(H1_m)
```

```
##              Df Sum Sq Mean Sq F value Pr(>F)
## Group          9    6.4  0.7061    0.871  0.551
## Residuals    598  485.0  0.8111
```

```
# ANOVA indicates no difference among groups but still running Post-hoc
TukeyHSD(H1_m)
```

```
## Tukey multiple comparisons of means
## 95% family-wise confidence level
##
## Fit: aov(formula = masculinity ~ Group, data = new_df)
##
## $Group
##              diff            lwr            upr            p adj
## Asian_Woman-Asian_Man -0.105197133 -0.6231535  0.4127593  0.9997503
## Black_Man-Asian_Man   -0.055197133 -0.5731535  0.4627593  0.9999990
## Black_Woman-Asian_Man  0.167025090 -0.3509313  0.6849815  0.9907555
## Blight_Man-Asian_Man   0.198242021 -0.3134088  0.7098928  0.9672886
## Blight_Woman-Asian_Man 0.107526882 -0.4061664  0.6212202  0.9996798
## Wasian_Man-Asian_Man   0.145331968 -0.3663188  0.6569828  0.9963911
## Wasian_Woman-Asian_Man 0.017025090 -0.5009313  0.5349815  1.0000000
## White_Man-Asian_Man   -0.073971079 -0.5964461  0.4485040  0.9999882
## White_Woman-Asian_Man  0.100358423 -0.4175980  0.6183148  0.9998310
## Black_Man-Asian_Woman  0.050000000 -0.4721847  0.5721847  0.9999996
## Black_Woman-Asian_Woman 0.272222222 -0.2499625  0.7944069  0.8197701
## Blight_Man-Asian_Woman 0.303439153 -0.2124916  0.8193699  0.6909297
## Blight_Woman-Asian_Woman 0.212724014 -0.3052324  0.7306804  0.9525641
## Wasian_Man-Asian_Woman 0.250529101 -0.2654017  0.7664599  0.8746048
## Wasian_Woman-Asian_Woman 0.122222222 -0.3999625  0.6444069  0.9992063
```

```
## White_Man-Asian_Woman      0.031226054 -0.4954410 0.5578931 1.0000000
## White_Woman-Asian_Woman    0.205555556 -0.3166291 0.7277402 0.9637523
## Black_Woman-Black_Man      0.222222222 -0.2999625 0.7444069 0.9409608
## Blight_Man-Black_Man       0.253439153 -0.2624916 0.7693699 0.8666967
## Blight_Woman-Black_Man     0.162724014 -0.3552324 0.6806804 0.9923509
## Wasian_Man-Black_Man       0.200529101 -0.3154017 0.7164599 0.9666134
## Wasian_Woman-Black_Man     0.072222222 -0.4499625 0.5944069 0.9999904
## White_Man-Black_Man        -0.018773946 -0.5454410 0.5078931 1.0000000
## White_Woman-Black_Man      0.155555556 -0.3666291 0.6777402 0.9948352
## Blight_Man-Black_Woman     0.031216931 -0.4847138 0.5471477 1.0000000
## Blight_Woman-Black_Woman   -0.059498208 -0.5774546 0.4584582 0.9999981
## Wasian_Man-Black_Woman     -0.021693122 -0.5376239 0.4942376 1.0000000
## Wasian_Woman-Black_Woman   -0.150000000 -0.6721847 0.3721847 0.9960703
## White_Man-Black_Woman      -0.240996169 -0.7676632 0.2856709 0.9095806
## White_Woman-Black_Woman    -0.066666667 -0.5888514 0.4555180 0.9999952
## Blight_Woman-Blight_Man    -0.090715139 -0.6023659 0.4209357 0.9999197
## Wasian_Man-Blight_Man      -0.052910053 -0.5625101 0.4566900 0.9999992
## Wasian_Woman-Blight_Man    -0.181216931 -0.6971477 0.3347138 0.9830819
## White_Man-Blight_Man       -0.272213100 -0.7926801 0.2482539 0.8168834
## White_Woman-Blight_Man     -0.097883598 -0.6138144 0.4180472 0.9998582
## Wasian_Man-Blight_Woman    0.037805086 -0.4738457 0.5494559 1.0000000
## Wasian_Woman-Blight_Woman -0.090501792 -0.6084582 0.4274546 0.9999290
## White_Man-Blight_Woman     -0.181497961 -0.7039730 0.3409771 0.9843308
## White_Woman-Blight_Woman   -0.007168459 -0.5251249 0.5107879 1.0000000
## Wasian_Woman-Wasian_Man    -0.128306878 -0.6442376 0.3876239 0.9987132
## White_Man-Wasian_Man       -0.219303047 -0.7397700 0.3011639 0.9444254
## White_Woman-Wasian_Man     -0.044973545 -0.5609043 0.4709572 0.9999998
## White_Man-Wasian_Woman     -0.090996169 -0.6176632 0.4356709 0.9999354
## White_Woman-Wasian_Woman   0.083333333 -0.4388514 0.6055180 0.9999671
## White_Woman-White_Man      0.174329502 -0.3523375 0.7009965 0.9888495
```

```
H1_f <- aov(femininity ~ Group, data = new_df)
summary(H1_f)
```

```
##              Df Sum Sq Mean Sq F value Pr(>F)
## Group          9    9.2    1.024    0.979  0.456
## Residuals    598  625.5    1.046
```

```
TukeyHSD(H1_f)
```

```
##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = femininity ~ Group, data = new_df)
##
## $Group
##              diff              lwr              upr              p adj
## Asian_Woman-Asian_Man 0.057258065 -0.5309347 0.6454509 0.9999996
## Black_Man-Asian_Man   0.232258065 -0.3559347 0.8204509 0.9630222
## Black_Woman-Asian_Man 0.307258065 -0.2809347 0.8954509 0.8179721
## Blight_Man-Asian_Man  0.314004096 -0.2670280 0.8950362 0.7860537
## Blight_Woman-Asian_Man 0.149193548 -0.4341581 0.7325452 0.9983955
## Wasian_Man-Asian_Man  0.202892985 -0.3781391 0.7839251 0.9837538
```

```
## Wasian_Woman-Asian_Man      0.078091398 -0.5101014 0.6662842 0.9999933
## White_Man-Asian_Man         -0.045328142 -0.6386523 0.5479960 0.9999999
## White_Woman-Asian_Man       0.007258065 -0.5809347 0.5954509 1.0000000
## Black_Man-Asian_Woman       0.175000000 -0.4179945 0.7679945 0.9951851
## Black_Woman-Asian_Woman     0.250000000 -0.3429945 0.8429945 0.9442390
## Blight_Man-Asian_Woman      0.256746032 -0.3291464 0.8426385 0.9296357
## Blight_Woman-Asian_Woman    0.091935484 -0.4962573 0.6801283 0.9999725
## Wasian_Man-Asian_Woman      0.145634921 -0.4402575 0.7315274 0.9987181
## Wasian_Woman-Asian_Woman    0.020833333 -0.5721611 0.6138278 1.0000000
## White_Man-Asian_Woman       -0.102586207 -0.7006708 0.4954984 0.9999393
## White_Woman-Asian_Woman     -0.050000000 -0.6429945 0.5429945 0.9999999
## Black_Woman-Black_Man       0.075000000 -0.5179945 0.6679945 0.9999956
## Blight_Man-Black_Man        0.081746032 -0.5041464 0.6676385 0.9999896
## Blight_Woman-Black_Man      -0.083064516 -0.6712573 0.5051283 0.9999885
## Wasian_Man-Black_Man        -0.029365079 -0.6152575 0.5565274 1.0000000
## Wasian_Woman-Black_Man      -0.154166667 -0.7471611 0.4388278 0.9981758
## White_Man-Black_Man         -0.277586207 -0.8756708 0.3204984 0.9020523
## White_Woman-Black_Man       -0.225000000 -0.8179945 0.3679945 0.9714845
## Blight_Man-Black_Woman      0.006746032 -0.5791464 0.5926385 1.0000000
## Blight_Woman-Black_Woman    -0.158064516 -0.7462573 0.4301283 0.9976404
## Wasian_Man-Black_Woman      -0.104365079 -0.6902575 0.4815274 0.9999165
## Wasian_Woman-Black_Woman    -0.229166667 -0.8221611 0.3638278 0.9678345
## White_Man-Black_Woman       -0.352586207 -0.9506708 0.2454984 0.6879779
## White_Woman-Black_Woman     -0.300000000 -0.8929945 0.2929945 0.8447821
## Blight_Woman-Blight_Man     -0.164810548 -0.7458427 0.4162216 0.9964289
## Wasian_Man-Blight_Man       -0.111111111 -0.6898144 0.4675922 0.9998434
## Wasian_Woman-Blight_Man     -0.235912698 -0.8218052 0.3499798 0.9581132
## White_Man-Blight_Man        -0.359332239 -0.9503760 0.2317116 0.6479924
## White_Woman-Blight_Man      -0.306746032 -0.8926385 0.2791464 0.8159692
## Wasian_Man-Blight_Woman     0.053699437 -0.5273327 0.6347316 0.9999997
## Wasian_Woman-Blight_Woman   -0.071102151 -0.6592950 0.5170906 0.9999970
## White_Man-Blight_Woman      -0.194521691 -0.7878459 0.3988025 0.9895871
## White_Woman-Blight_Woman    -0.141935484 -0.7301283 0.4462573 0.9989870
## Wasian_Woman-Wasian_Man     -0.124801587 -0.7106941 0.4610909 0.9996304
## White_Man-Wasian_Man        -0.248221128 -0.8392649 0.3428227 0.9455368
## White_Woman-Wasian_Man      -0.195634921 -0.7815274 0.3902575 0.9881344
## White_Man-Wasian_Woman      -0.123419540 -0.7215042 0.4746651 0.9997152
## White_Woman-Wasian_Woman    -0.070833333 -0.6638278 0.5221611 0.9999973
## White_Woman-White_Man       0.052586207 -0.5454984 0.6506708 0.9999998
```

```
H2 <- manova(cbind(masculinity, femininity) ~ Group, data = new_df)
summary(H2)
```

```
##           Df    Pillai approx F num Df den Df Pr(>F)
## Group      9 0.024753 0.83264      18   1196 0.6624
## Residuals 598
```

```
## masculinity & femininity ratings
H3_m <- aov(masculinity ~ Group, data = new_df)
summary(H3_m)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9      6.4  0.7061   0.871  0.551
## Residuals 598  485.0  0.8111
```

*# ANOVA indicates no difference among groups but still running Post-hoc*  
TukeyHSD(H3\_m)

```
## Tukey multiple comparisons of means
## 95% family-wise confidence level
##
## Fit: aov(formula = masculinity ~ Group, data = new_df)
##
## $Group
##
```

	diff	lwr	upr	p adj
## Asian_Woman-Asian_Man	-0.105197133	-0.6231535	0.4127593	0.9997503
## Black_Man-Asian_Man	-0.055197133	-0.5731535	0.4627593	0.9999990
## Black_Woman-Asian_Man	0.167025090	-0.3509313	0.6849815	0.9907555
## Blight_Man-Asian_Man	0.198242021	-0.3134088	0.7098928	0.9672886
## Blight_Woman-Asian_Man	0.107526882	-0.4061664	0.6212202	0.9996798
## Wasian_Man-Asian_Man	0.145331968	-0.3663188	0.6569828	0.9963911
## Wasian_Woman-Asian_Man	0.017025090	-0.5009313	0.5349815	1.0000000
## White_Man-Asian_Man	-0.073971079	-0.5964461	0.4485040	0.9999882
## White_Woman-Asian_Man	0.100358423	-0.4175980	0.6183148	0.9998310
## Black_Man-Asian_Woman	0.050000000	-0.4721847	0.5721847	0.9999996
## Black_Woman-Asian_Woman	0.272222222	-0.2499625	0.7944069	0.8197701
## Blight_Man-Asian_Woman	0.303439153	-0.2124916	0.8193699	0.6909297
## Blight_Woman-Asian_Woman	0.212724014	-0.3052324	0.7306804	0.9525641
## Wasian_Man-Asian_Woman	0.250529101	-0.2654017	0.7664599	0.8746048
## Wasian_Woman-Asian_Woman	0.122222222	-0.3999625	0.6444069	0.9992063
## White_Man-Asian_Woman	0.031226054	-0.4954410	0.5578931	1.0000000
## White_Woman-Asian_Woman	0.205555556	-0.3166291	0.7277402	0.9637523
## Black_Woman-Black_Man	0.222222222	-0.2999625	0.7444069	0.9409608
## Blight_Man-Black_Man	0.253439153	-0.2624916	0.7693699	0.8666967
## Blight_Woman-Black_Man	0.162724014	-0.3552324	0.6806804	0.9923509
## Wasian_Man-Black_Man	0.200529101	-0.3154017	0.7164599	0.9666134
## Wasian_Woman-Black_Man	0.072222222	-0.4499625	0.5944069	0.9999904
## White_Man-Black_Man	-0.018773946	-0.5454410	0.5078931	1.0000000
## White_Woman-Black_Man	0.155555556	-0.3666291	0.6777402	0.9948352
## Blight_Man-Black_Woman	0.031216931	-0.4847138	0.5471477	1.0000000
## Blight_Woman-Black_Woman	-0.059498208	-0.5774546	0.4584582	0.9999981
## Wasian_Man-Black_Woman	-0.021693122	-0.5376239	0.4942376	1.0000000
## Wasian_Woman-Black_Woman	-0.150000000	-0.6721847	0.3721847	0.9960703
## White_Man-Black_Woman	-0.240996169	-0.7676632	0.2856709	0.9095806
## White_Woman-Black_Woman	-0.066666667	-0.5888514	0.4555180	0.9999952
## Blight_Woman-Blight_Man	-0.090715139	-0.6023659	0.4209357	0.9999197
## Wasian_Man-Blight_Man	-0.052910053	-0.5625101	0.4566900	0.9999992
## Wasian_Woman-Blight_Man	-0.181216931	-0.6971477	0.3347138	0.9830819
## White_Man-Blight_Man	-0.272213100	-0.7926801	0.2482539	0.8168834
## White_Woman-Blight_Man	-0.097883598	-0.6138144	0.4180472	0.9998582
## Wasian_Man-Blight_Woman	0.037805086	-0.4738457	0.5494559	1.0000000
## Wasian_Woman-Blight_Woman	-0.090501792	-0.6084582	0.4274546	0.9999290
## White_Man-Blight_Woman	-0.181497961	-0.7039730	0.3409771	0.9843308
## White_Woman-Blight_Woman	-0.007168459	-0.5251249	0.5107879	1.0000000
## Wasian_Woman-Wasian_Man	-0.128306878	-0.6442376	0.3876239	0.9987132
## White_Man-Wasian_Man	-0.219303047	-0.7397700	0.3011639	0.9444254
## White_Woman-Wasian_Man	-0.044973545	-0.5609043	0.4709572	0.9999998
## White_Man-Wasian_Woman	-0.090996169	-0.6176632	0.4356709	0.9999354

```
## White_Woman-Wasian_Woman    0.083333333 -0.4388514 0.6055180 0.9999671
## White_Woman-White_Man       0.174329502 -0.3523375 0.7009965 0.9888495
```

```
H3_f <- aov(femininity ~ Group, data = new_df)
summary(H3_f)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9    9.2    1.024    0.979  0.456
## Residuals 598  625.5    1.046
```

```
## total response time difference
total_response_time_anova <- aov(total_response_time ~ Group, data = new_df)
summary(total_response_time_anova)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9  42185    4687    0.672  0.735
## Residuals 598 4172869    6978
```

```
## item-wise response time difference
item1_response_time_aonva <- aov(timing_leader ~ Group, data = new_df)
summary(item1_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9   2412    268.0    1.244  0.265
## Residuals 598 128773    215.3
```

```
item2_response_time_aonva <- aov(timing_independent ~ Group, data = new_df)
summary(item2_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9   1278    142.0    0.858  0.563
## Residuals 598  98953    165.5
```

```
item3_response_time_aonva <- aov(timing_ambitious ~ Group, data = new_df)
summary(item3_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9   3377    375.3    1.036  0.41
## Residuals 598 216653    362.3
```

```
item4_response_time_aonva <- aov(timing_loyal ~ Group, data = new_df)
summary(item4_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9   1060    117.74    1.186  0.301
## Residuals 598  59385    99.31
```

```
item5_response_time_aonva <- aov(timing_sensitive ~ Group, data = new_df)
summary(item5_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9   18466     2052   0.794  0.622
## Residuals 598 1545113     2584
```

```
item6_response_time_aonva <- aov(timing_warm ~ Group, data = new_df)
summary(item6_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9     921     102.3   0.65  0.754
## Residuals 598  94059     157.3
```

```
item7_response_time_aonva <- aov(timing_compassionate ~ Group, data = new_df)
summary(item7_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9     287     31.87   0.332  0.964
## Residuals 598  57370     95.94
```

```
item8_response_time_aonva <- aov(timing_adaptable ~ Group, data = new_df)
summary(item8_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9    1144    127.06   1.385  0.191
## Residuals 598  54874     91.76
```

```
item9_response_time_aonva <- aov(timing_sincere ~ Group, data = new_df)
summary(item9_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9    2566    285.1   1.248  0.263
## Residuals 598 136662    228.5
```

```
item10_response_time_aonva <- aov(timing_reliable ~ Group, data = new_df)
summary(item10_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9    1706    189.6   1.15  0.325
## Residuals 598  98551    164.8
```

```
item11_response_time_aonva <- aov(timing_truthful ~ Group, data = new_df)
summary(item11_response_time_aonva)
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
## Group      9   13681    1520   1.493  0.147
## Residuals 598 608779    1018
```



```
# Hypothesis 3 was not supported
# H3a: No difference in masculinity or femininity rating among groups
# H3b: No difference in response time
```

```
modell1 <- lm(tot_res_time ~ Group * age * gender, data = lm_df)
summary(modell1)
```

```
##
## Call:
## lm(formula = tot_res_time ~ Group * age * gender, data = lm_df)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -90.82  -36.64  -19.45    5.06  1086.24
##
## Coefficients: (11 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -228.17460    617.83430   -0.369   0.712
## GroupAsian_Woman -189.68405    247.26815   -0.767   0.443
## GroupBlack_Man   238.39493    699.08613    0.341   0.733
## GroupBlack_Woman  23.69264    92.01023    0.258   0.797
## GroupBlight_Man  -53.91671    96.34198   -0.560   0.576
## GroupBlight_Woman -110.77858    100.76255   -1.099   0.272
## GroupWasian_Man  -21.96129    106.73709   -0.206   0.837
## GroupWasian_Woman -147.39958    126.41987   -1.166   0.244
## GroupWhite_Man   454.53960   3610.46192    0.126   0.900
## GroupWhite_Woman -101.25607    162.24079   -0.624   0.533
## age              12.77420     24.11319    0.530   0.596
## genderFemale     266.57368    624.26531    0.427   0.670
## genderMale       360.71229    621.77393    0.580   0.562
## GroupAsian_Woman:age  0.42450     2.66821    0.159   0.874
## GroupBlack_Man:age  -11.86287     26.12262   -0.454   0.650
## GroupBlack_Woman:age -0.02053     2.44228   -0.008   0.993
## GroupBlight_Man:age  1.20012     2.59470    0.463   0.644
## GroupBlight_Woman:age  2.73180     2.73878    0.997   0.319
## GroupWasian_Man:age  0.34597     2.89097    0.120   0.905
## GroupWasian_Woman:age  3.65373     2.80984    1.300   0.194
## GroupWhite_Man:age  -18.93720    122.95362   -0.154   0.878
## GroupWhite_Woman:age  0.61413     3.14101    0.196   0.845
## GroupAsian_Woman:genderFemale 201.99213    273.26197    0.739   0.460
## GroupBlack_Man:genderFemale -247.57621    708.60070   -0.349   0.727
## GroupBlack_Woman:genderFemale  62.52062    163.13934    0.383   0.702
## GroupBlight_Man:genderFemale 194.35878    162.72149    1.194   0.233
## GroupBlight_Woman:genderFemale 103.36874    154.41338    0.669   0.503
## GroupWasian_Man:genderFemale 121.56517    156.95500    0.775   0.439
## GroupWasian_Woman:genderFemale 137.57728    179.21289    0.768   0.443
## GroupWhite_Man:genderFemale -424.22992   3612.72911   -0.117   0.907
## GroupWhite_Woman:genderFemale 122.35983    195.29392    0.627   0.531
## GroupAsian_Woman:genderMale 169.23578    230.92764    0.733   0.464
## GroupBlack_Man:genderMale -294.50250    706.33349   -0.417   0.677
## GroupBlack_Woman:genderMale      NA         NA      NA      NA
## GroupBlight_Man:genderMale      NA         NA      NA      NA
## GroupBlight_Woman:genderMale      NA         NA      NA      NA
```



```
## GroupWasian_Man:genderMale      NA      NA      NA      NA
## GroupWasian_Woman:genderMale    10.61597 111.67923 0.095 0.924
## GroupWhite_Man:genderMale      -557.77637 3611.75209 -0.154 0.877
## GroupWhite_Woman:genderMale     67.61697 137.18251 0.493 0.622
## age:genderFemale               -11.83271 24.20627 -0.489 0.625
## age:genderMale                 -14.12614 24.18889 -0.584 0.559
## GroupAsian_Woman:age:genderFemale -0.66190 3.87512 -0.171 0.864
## GroupBlack_Man:age:genderFemale  11.96927 26.27703 0.456 0.649
## GroupBlack_Woman:age:genderFemale -1.67830 4.17822 -0.402 0.688
## GroupBlight_Man:age:genderFemale -4.88895 4.28335 -1.141 0.254
## GroupBlight_Woman:age:genderFemale -2.49189 3.99392 -0.624 0.533
## GroupWasian_Man:age:genderFemale -2.18368 4.01046 -0.544 0.586
## GroupWasian_Woman:age:genderFemale -3.34495 4.23585 -0.790 0.430
## GroupWhite_Man:age:genderFemale  18.57878 122.99275 0.151 0.880
## GroupWhite_Woman:age:genderFemale -0.62857 4.07703 -0.154 0.878
## GroupAsian_Woman:age:genderMale   NA      NA      NA      NA
## GroupBlack_Man:age:genderMale    13.76168 26.26355 0.524 0.600
## GroupBlack_Woman:age:genderMale   NA      NA      NA      NA
## GroupBlight_Man:age:genderMale    NA      NA      NA      NA
## GroupBlight_Woman:age:genderMale  NA      NA      NA      NA
## GroupWasian_Man:age:genderMale    NA      NA      NA      NA
## GroupWasian_Woman:age:genderMale  NA      NA      NA      NA
## GroupWhite_Man:age:genderMale    22.16538 122.98097 0.180 0.857
## GroupWhite_Woman:age:genderMale   NA      NA      NA      NA
##
## Residual standard error: 85.25 on 559 degrees of freedom
## Multiple R-squared: 0.03611, Adjusted R-squared: -0.04666
## F-statistic: 0.4363 on 48 and 559 DF, p-value: 0.9997
```

```
model2 <- lm(tot_res_time ~ Group * eth * emp_st, data = lm_df)
summary(model2)
```

```
##
## Call:
## lm(formula = tot_res_time ~ Group * eth * emp_st, data = lm_df)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -153.68  -32.59  -15.81    6.68 1098.32
##
## Coefficients: (112 not defined because of singularities)
##
## (Intercept)                                Estimate
## GroupAsian_Woman                            75.042
## GroupBlack_Man                             130.440
## GroupBlack_Woman                           282.407
## GroupBlight_Man                            -13.821
## GroupBlight_Woman                           25.178
## GroupWasian_Man                             69.224
## GroupWasian_Woman                             1.989
## GroupWhite_Man                             15.503
## GroupWhite_Woman                           -21.239
## ethAsian                                   -27.961
## ethCaucasian                                1.483
```

## ethLatino	8.690
## ethNative American	-40.543
## ethOther (including identifying as multiple)	-6.146
## emp_stEmployed part-time	20.769
## emp_stSelf-employed	-344.776
## GroupAsian_Woman:ethAsian	-87.026
## GroupBlack_Man:ethAsian	-131.331
## GroupBlack_Woman:ethAsian	-282.179
## GroupBlight_Man:ethAsian	20.396
## GroupBlight_Woman:ethAsian	-16.802
## GroupWasian_Man:ethAsian	-67.299
## GroupWasian_Woman:ethAsian	1.960
## GroupWhite_Man:ethAsian	-11.777
## GroupWhite_Woman:ethAsian	95.888
## GroupAsian_Woman:ethCaucasian	-93.819
## GroupBlack_Man:ethCaucasian	-149.290
## GroupBlack_Woman:ethCaucasian	-282.808
## GroupBlight_Man:ethCaucasian	7.155
## GroupBlight_Woman:ethCaucasian	-40.936
## GroupWasian_Man:ethCaucasian	-77.531
## GroupWasian_Woman:ethCaucasian	-6.458
## GroupWhite_Man:ethCaucasian	-6.567
## GroupWhite_Woman:ethCaucasian	19.396
## GroupAsian_Woman:ethLatino	-74.571
## GroupBlack_Man:ethLatino	-157.437
## GroupBlack_Woman:ethLatino	-296.733
## GroupBlight_Man:ethLatino	-2.740
## GroupBlight_Woman:ethLatino	-18.637
## GroupWasian_Man:ethLatino	-102.138
## GroupWasian_Woman:ethLatino	-24.295
## GroupWhite_Man:ethLatino	52.410
## GroupWhite_Woman:ethLatino	34.852
## GroupAsian_Woman:ethNative American	NA
## GroupBlack_Man:ethNative American	-69.372
## GroupBlack_Woman:ethNative American	95.158
## GroupBlight_Man:ethNative American	NA
## GroupBlight_Woman:ethNative American	NA
## GroupWasian_Man:ethNative American	NA
## GroupWasian_Woman:ethNative American	NA
## GroupWhite_Man:ethNative American	NA
## GroupWhite_Woman:ethNative American	NA
## GroupAsian_Woman:ethOther (including identifying as multiple)	-83.160
## GroupBlack_Man:ethOther (including identifying as multiple)	-134.895
## GroupBlack_Woman:ethOther (including identifying as multiple)	-318.018
## GroupBlight_Man:ethOther (including identifying as multiple)	70.156
## GroupBlight_Woman:ethOther (including identifying as multiple)	NA
## GroupWasian_Man:ethOther (including identifying as multiple)	-11.189
## GroupWasian_Woman:ethOther (including identifying as multiple)	-32.678
## GroupWhite_Man:ethOther (including identifying as multiple)	NA
## GroupWhite_Woman:ethOther (including identifying as multiple)	17.132
## GroupAsian_Woman:emp_stEmployed part-time	NA
## GroupBlack_Man:emp_stEmployed part-time	NA
## GroupBlack_Woman:emp_stEmployed part-time	NA
## GroupBlight_Man:emp_stEmployed part-time	NA

## GroupBlight_Woman:emp_stEmployed part-time	NA
## GroupWasian_Man:emp_stEmployed part-time	NA
## GroupWasian_Woman:emp_stEmployed part-time	NA
## GroupWhite_Man:emp_stEmployed part-time	NA
## GroupWhite_Woman:emp_stEmployed part-time	NA
## GroupAsian_Woman:emp_stSelf-employed	62.782
## GroupBlack_Man:emp_stSelf-employed	210.224
## GroupBlack_Woman:emp_stSelf-employed	35.803
## GroupBlight_Man:emp_stSelf-employed	-43.853
## GroupBlight_Woman:emp_stSelf-employed	33.381
## GroupWasian_Man:emp_stSelf-employed	-1.865
## GroupWasian_Woman:emp_stSelf-employed	22.917
## GroupWhite_Man:emp_stSelf-employed	338.981
## GroupWhite_Woman:emp_stSelf-employed	9.474
## ethAsian:emp_stEmployed part-time	NA
## ethCaucasian:emp_stEmployed part-time	NA
## ethLatino:emp_stEmployed part-time	NA
## ethNative American:emp_stEmployed part-time	NA
## ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## ethAsian:emp_stSelf-employed	305.612
## ethCaucasian:emp_stSelf-employed	329.112
## ethLatino:emp_stSelf-employed	275.826
## ethNative American:emp_stSelf-employed	NA
## ethOther (including identifying as multiple):emp_stSelf-employed	332.090
## GroupAsian_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupBlack_Man:ethAsian:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupBlight_Man:ethAsian:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupWasian_Man:ethAsian:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupWhite_Man:ethAsian:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlack_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlight_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupWasian_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupWhite_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupBlack_Man:ethLatino:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupBlight_Man:ethLatino:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupWasian_Man:ethLatino:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupWhite_Man:ethLatino:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupBlack_Man:ethNative American:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethNative American:emp_stEmployed part-time	NA

## GroupBlight_Man:ethNative American:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupWasian_Man:ethNative American:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupWhite_Man:ethNative American:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupAsian_Woman:ethAsian:emp_stSelf-employed	NA
## GroupBlack_Man:ethAsian:emp_stSelf-employed	NA
## GroupBlack_Woman:ethAsian:emp_stSelf-employed	NA
## GroupBlight_Man:ethAsian:emp_stSelf-employed	NA
## GroupBlight_Woman:ethAsian:emp_stSelf-employed	NA
## GroupWasian_Man:ethAsian:emp_stSelf-employed	NA
## GroupWasian_Woman:ethAsian:emp_stSelf-employed	NA
## GroupWhite_Man:ethAsian:emp_stSelf-employed	NA
## GroupWhite_Woman:ethAsian:emp_stSelf-employed	NA
## GroupAsian_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupBlack_Man:ethCaucasian:emp_stSelf-employed	-186.677
## GroupBlack_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupBlight_Man:ethCaucasian:emp_stSelf-employed	15.649
## GroupBlight_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupWasian_Man:ethCaucasian:emp_stSelf-employed	NA
## GroupWasian_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupWhite_Man:ethCaucasian:emp_stSelf-employed	NA
## GroupWhite_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupAsian_Woman:ethLatino:emp_stSelf-employed	NA
## GroupBlack_Man:ethLatino:emp_stSelf-employed	NA
## GroupBlack_Woman:ethLatino:emp_stSelf-employed	NA
## GroupBlight_Man:ethLatino:emp_stSelf-employed	NA
## GroupBlight_Woman:ethLatino:emp_stSelf-employed	NA
## GroupWasian_Man:ethLatino:emp_stSelf-employed	NA
## GroupWasian_Woman:ethLatino:emp_stSelf-employed	NA
## GroupWhite_Man:ethLatino:emp_stSelf-employed	NA
## GroupWhite_Woman:ethLatino:emp_stSelf-employed	NA
## GroupAsian_Woman:ethNative American:emp_stSelf-employed	NA
## GroupBlack_Man:ethNative American:emp_stSelf-employed	NA
## GroupBlack_Woman:ethNative American:emp_stSelf-employed	NA
## GroupBlight_Man:ethNative American:emp_stSelf-employed	NA
## GroupBlight_Woman:ethNative American:emp_stSelf-employed	NA
## GroupWasian_Man:ethNative American:emp_stSelf-employed	NA
## GroupWasian_Woman:ethNative American:emp_stSelf-employed	NA
## GroupWhite_Man:ethNative American:emp_stSelf-employed	NA
## GroupWhite_Woman:ethNative American:emp_stSelf-employed	NA
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA

## GroupBlight_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
##	Std. Error
## (Intercept)	40.755
## GroupAsian_Woman	51.090
## GroupBlack_Man	52.615
## GroupBlack_Woman	57.637
## GroupBlight_Man	62.255
## GroupBlight_Woman	54.679
## GroupWasian_Man	48.223
## GroupWasian_Woman	62.255
## GroupWhite_Man	51.090
## GroupWhite_Woman	52.615
## ethAsian	62.255
## ethCaucasian	42.568
## ethLatino	54.679
## ethNative American	91.132
## ethOther (including identifying as multiple)	70.591
## emp_stEmployed part-time	82.392
## emp_stSelf-employed	123.482
## GroupAsian_Woman:ethAsian	90.260
## GroupBlack_Man:ethAsian	84.839
## GroupBlack_Woman:ethAsian	94.121
## GroupBlight_Man:ethAsian	86.135
## GroupBlight_Woman:ethAsian	79.447
## GroupWasian_Man:ethAsian	76.609
## GroupWasian_Woman:ethAsian	88.042
## GroupWhite_Man:ethAsian	90.260
## GroupWhite_Woman:ethAsian	81.511
## GroupAsian_Woman:ethCaucasian	53.904
## GroupBlack_Man:ethCaucasian	55.760
## GroupBlack_Woman:ethCaucasian	60.172
## GroupBlight_Man:ethCaucasian	64.538
## GroupBlight_Woman:ethCaucasian	57.265
## GroupWasian_Man:ethCaucasian	51.258
## GroupWasian_Woman:ethCaucasian	64.785
## GroupWhite_Man:ethCaucasian	53.904
## GroupWhite_Woman:ethCaucasian	55.547
## GroupAsian_Woman:ethLatino	102.874
## GroupBlack_Man:ethLatino	75.883
## GroupBlack_Woman:ethLatino	82.858
## GroupBlight_Man:ethLatino	86.135
## GroupBlight_Woman:ethLatino	104.703
## GroupWasian_Man:ethLatino	101.480
## GroupWasian_Woman:ethLatino	77.685
## GroupWhite_Man:ethLatino	102.874
## GroupWhite_Woman:ethLatino	73.661
## GroupAsian_Woman:ethNative American	NA
## GroupBlack_Man:ethNative American	126.714
## GroupBlack_Woman:ethNative American	146.946

## GroupBlight_Man:ethNative American	NA
## GroupBlight_Woman:ethNative American	NA
## GroupWasian_Man:ethNative American	NA
## GroupWasian_Woman:ethNative American	NA
## GroupWhite_Man:ethNative American	NA
## GroupWhite_Woman:ethNative American	NA
## GroupAsian_Woman:ethOther (including identifying as multiple)	96.199
## GroupBlack_Man:ethOther (including identifying as multiple)	112.847
## GroupBlack_Woman:ethOther (including identifying as multiple)	115.274
## GroupBlight_Man:ethOther (including identifying as multiple)	117.651
## GroupBlight_Woman:ethOther (including identifying as multiple)	NA
## GroupWasian_Man:ethOther (including identifying as multiple)	110.867
## GroupWasian_Woman:ethOther (including identifying as multiple)	117.651
## GroupWhite_Man:ethOther (including identifying as multiple)	NA
## GroupWhite_Woman:ethOther (including identifying as multiple)	88.042
## GroupAsian_Woman:emp_stEmployed part-time	NA
## GroupBlack_Man:emp_stEmployed part-time	NA
## GroupBlack_Woman:emp_stEmployed part-time	NA
## GroupBlight_Man:emp_stEmployed part-time	NA
## GroupBlight_Woman:emp_stEmployed part-time	NA
## GroupWasian_Man:emp_stEmployed part-time	NA
## GroupWasian_Woman:emp_stEmployed part-time	NA
## GroupWhite_Man:emp_stEmployed part-time	NA
## GroupWhite_Woman:emp_stEmployed part-time	NA
## GroupAsian_Woman:emp_stSelf-employed	101.299
## GroupBlack_Man:emp_stSelf-employed	151.655
## GroupBlack_Woman:emp_stSelf-employed	83.323
## GroupBlight_Man:emp_stSelf-employed	152.493
## GroupBlight_Woman:emp_stSelf-employed	83.267
## GroupWasian_Man:emp_stSelf-employed	83.343
## GroupWasian_Woman:emp_stSelf-employed	70.514
## GroupWhite_Man:emp_stSelf-employed	151.132
## GroupWhite_Woman:emp_stSelf-employed	101.406
## ethAsian:emp_stEmployed part-time	NA
## ethCaucasian:emp_stEmployed part-time	NA
## ethLatino:emp_stEmployed part-time	NA
## ethNative American:emp_stEmployed part-time	NA
## ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## ethAsian:emp_stSelf-employed	168.906
## ethCaucasian:emp_stSelf-employed	108.511
## ethLatino:emp_stSelf-employed	131.010
## ethNative American:emp_stSelf-employed	NA
## ethOther (including identifying as multiple):emp_stSelf-employed	158.788
## GroupAsian_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupBlack_Man:ethAsian:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupBlight_Man:ethAsian:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupWasian_Man:ethAsian:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupWhite_Man:ethAsian:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlack_Man:ethCaucasian:emp_stEmployed part-time	NA

## GroupBlack_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlight_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupWasian_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupWhite_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupBlack_Man:ethLatino:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupBlight_Man:ethLatino:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupWasian_Man:ethLatino:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupWhite_Man:ethLatino:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupBlack_Man:ethNative American:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupBlight_Man:ethNative American:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupWasian_Man:ethNative American:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupWhite_Man:ethNative American:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupAsian_Woman:ethAsian:emp_stSelf-employed	NA
## GroupBlack_Man:ethAsian:emp_stSelf-employed	NA
## GroupBlack_Woman:ethAsian:emp_stSelf-employed	NA
## GroupBlight_Man:ethAsian:emp_stSelf-employed	NA
## GroupBlight_Woman:ethAsian:emp_stSelf-employed	NA
## GroupWasian_Man:ethAsian:emp_stSelf-employed	NA
## GroupWasian_Woman:ethAsian:emp_stSelf-employed	NA
## GroupWhite_Man:ethAsian:emp_stSelf-employed	NA
## GroupWhite_Woman:ethAsian:emp_stSelf-employed	NA
## GroupAsian_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupBlack_Man:ethCaucasian:emp_stSelf-employed	143.018
## GroupBlack_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupBlight_Man:ethCaucasian:emp_stSelf-employed	173.746
## GroupBlight_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupWasian_Man:ethCaucasian:emp_stSelf-employed	NA
## GroupWasian_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupWhite_Man:ethCaucasian:emp_stSelf-employed	NA
## GroupWhite_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupAsian_Woman:ethLatino:emp_stSelf-employed	NA
## GroupBlack_Man:ethLatino:emp_stSelf-employed	NA

## GroupBlack_Woman:ethLatino:emp_stSelf-employed	NA
## GroupBlight_Man:ethLatino:emp_stSelf-employed	NA
## GroupBlight_Woman:ethLatino:emp_stSelf-employed	NA
## GroupWasian_Man:ethLatino:emp_stSelf-employed	NA
## GroupWasian_Woman:ethLatino:emp_stSelf-employed	NA
## GroupWhite_Man:ethLatino:emp_stSelf-employed	NA
## GroupWhite_Woman:ethLatino:emp_stSelf-employed	NA
## GroupAsian_Woman:ethNative American:emp_stSelf-employed	NA
## GroupBlack_Man:ethNative American:emp_stSelf-employed	NA
## GroupBlack_Woman:ethNative American:emp_stSelf-employed	NA
## GroupBlight_Man:ethNative American:emp_stSelf-employed	NA
## GroupBlight_Woman:ethNative American:emp_stSelf-employed	NA
## GroupWasian_Man:ethNative American:emp_stSelf-employed	NA
## GroupWasian_Woman:ethNative American:emp_stSelf-employed	NA
## GroupWhite_Man:ethNative American:emp_stSelf-employed	NA
## GroupWhite_Woman:ethNative American:emp_stSelf-employed	NA
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
##	t value
## (Intercept)	2.054
## GroupAsian_Woman	1.469
## GroupBlack_Man	2.479
## GroupBlack_Woman	4.900
## GroupBlight_Man	-0.222
## GroupBlight_Woman	0.460
## GroupWasian_Man	1.436
## GroupWasian_Woman	0.032
## GroupWhite_Man	0.303
## GroupWhite_Woman	-0.404
## ethAsian	-0.449
## ethCaucasian	0.035
## ethLatino	0.159
## ethNative American	-0.445
## ethOther (including identifying as multiple)	-0.087
## emp_stEmployed part-time	0.252
## emp_stSelf-employed	-2.792
## GroupAsian_Woman:ethAsian	-0.964
## GroupBlack_Man:ethAsian	-1.548
## GroupBlack_Woman:ethAsian	-2.998
## GroupBlight_Man:ethAsian	0.237
## GroupBlight_Woman:ethAsian	-0.211
## GroupWasian_Man:ethAsian	-0.878
## GroupWasian_Woman:ethAsian	0.022
## GroupWhite_Man:ethAsian	-0.130
## GroupWhite_Woman:ethAsian	1.176
## GroupAsian_Woman:ethCaucasian	-1.740
## GroupBlack_Man:ethCaucasian	-2.677



## GroupBlack_Woman:ethCaucasian	-4.700
## GroupBlight_Man:ethCaucasian	0.111
## GroupBlight_Woman:ethCaucasian	-0.715
## GroupWasian_Man:ethCaucasian	-1.513
## GroupWasian_Woman:ethCaucasian	-0.100
## GroupWhite_Man:ethCaucasian	-0.122
## GroupWhite_Woman:ethCaucasian	0.349
## GroupAsian_Woman:ethLatino	-0.725
## GroupBlack_Man:ethLatino	-2.075
## GroupBlack_Woman:ethLatino	-3.581
## GroupBlight_Man:ethLatino	-0.032
## GroupBlight_Woman:ethLatino	-0.178
## GroupWasian_Man:ethLatino	-1.006
## GroupWasian_Woman:ethLatino	-0.313
## GroupWhite_Man:ethLatino	0.509
## GroupWhite_Woman:ethLatino	0.473
## GroupAsian_Woman:ethNative American	NA
## GroupBlack_Man:ethNative American	-0.547
## GroupBlack_Woman:ethNative American	0.648
## GroupBlight_Man:ethNative American	NA
## GroupBlight_Woman:ethNative American	NA
## GroupWasian_Man:ethNative American	NA
## GroupWasian_Woman:ethNative American	NA
## GroupWhite_Man:ethNative American	NA
## GroupWhite_Woman:ethNative American	NA
## GroupAsian_Woman:ethOther (including identifying as multiple)	-0.864
## GroupBlack_Man:ethOther (including identifying as multiple)	-1.195
## GroupBlack_Woman:ethOther (including identifying as multiple)	-2.759
## GroupBlight_Man:ethOther (including identifying as multiple)	0.596
## GroupBlight_Woman:ethOther (including identifying as multiple)	NA
## GroupWasian_Man:ethOther (including identifying as multiple)	-0.101
## GroupWasian_Woman:ethOther (including identifying as multiple)	-0.278
## GroupWhite_Man:ethOther (including identifying as multiple)	NA
## GroupWhite_Woman:ethOther (including identifying as multiple)	0.195
## GroupAsian_Woman:emp_stEmployed part-time	NA
## GroupBlack_Man:emp_stEmployed part-time	NA
## GroupBlack_Woman:emp_stEmployed part-time	NA
## GroupBlight_Man:emp_stEmployed part-time	NA
## GroupBlight_Woman:emp_stEmployed part-time	NA
## GroupWasian_Man:emp_stEmployed part-time	NA
## GroupWasian_Woman:emp_stEmployed part-time	NA
## GroupWhite_Man:emp_stEmployed part-time	NA
## GroupWhite_Woman:emp_stEmployed part-time	NA
## GroupAsian_Woman:emp_stSelf-employed	0.620
## GroupBlack_Man:emp_stSelf-employed	1.386
## GroupBlack_Woman:emp_stSelf-employed	0.430
## GroupBlight_Man:emp_stSelf-employed	-0.288
## GroupBlight_Woman:emp_stSelf-employed	0.401
## GroupWasian_Man:emp_stSelf-employed	-0.022
## GroupWasian_Woman:emp_stSelf-employed	0.325
## GroupWhite_Man:emp_stSelf-employed	2.243
## GroupWhite_Woman:emp_stSelf-employed	0.093
## ethAsian:emp_stEmployed part-time	NA
## ethCaucasian:emp_stEmployed part-time	NA

## ethLatino:emp_stEmployed part-time	NA
## ethNative American:emp_stEmployed part-time	NA
## ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## ethAsian:emp_stSelf-employed	1.809
## ethCaucasian:emp_stSelf-employed	3.033
## ethLatino:emp_stSelf-employed	2.105
## ethNative American:emp_stSelf-employed	NA
## ethOther (including identifying as multiple):emp_stSelf-employed	2.091
## GroupAsian_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupBlack_Man:ethAsian:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupBlight_Man:ethAsian:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupWasian_Man:ethAsian:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupWhite_Man:ethAsian:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlack_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlight_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupWasian_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupWhite_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupBlack_Man:ethLatino:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupBlight_Man:ethLatino:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupWasian_Man:ethLatino:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupWhite_Man:ethLatino:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupBlack_Man:ethNative American:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupBlight_Man:ethNative American:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupWasian_Man:ethNative American:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupWhite_Man:ethNative American:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupAsian_Woman:ethAsian:emp_stSelf-employed	NA

## GroupBlack_Man:ethAsian:emp_stSelf-employed	NA
## GroupBlack_Woman:ethAsian:emp_stSelf-employed	NA
## GroupBlight_Man:ethAsian:emp_stSelf-employed	NA
## GroupBlight_Woman:ethAsian:emp_stSelf-employed	NA
## GroupWasian_Man:ethAsian:emp_stSelf-employed	NA
## GroupWasian_Woman:ethAsian:emp_stSelf-employed	NA
## GroupWhite_Man:ethAsian:emp_stSelf-employed	NA
## GroupWhite_Woman:ethAsian:emp_stSelf-employed	NA
## GroupAsian_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupBlack_Man:ethCaucasian:emp_stSelf-employed	-1.305
## GroupBlack_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupBlight_Man:ethCaucasian:emp_stSelf-employed	0.090
## GroupBlight_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupWasian_Man:ethCaucasian:emp_stSelf-employed	NA
## GroupWasian_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupWhite_Man:ethCaucasian:emp_stSelf-employed	NA
## GroupWhite_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupAsian_Woman:ethLatino:emp_stSelf-employed	NA
## GroupBlack_Man:ethLatino:emp_stSelf-employed	NA
## GroupBlack_Woman:ethLatino:emp_stSelf-employed	NA
## GroupBlight_Man:ethLatino:emp_stSelf-employed	NA
## GroupBlight_Woman:ethLatino:emp_stSelf-employed	NA
## GroupWasian_Man:ethLatino:emp_stSelf-employed	NA
## GroupWasian_Woman:ethLatino:emp_stSelf-employed	NA
## GroupWhite_Man:ethLatino:emp_stSelf-employed	NA
## GroupWhite_Woman:ethLatino:emp_stSelf-employed	NA
## GroupAsian_Woman:ethNative American:emp_stSelf-employed	NA
## GroupBlack_Man:ethNative American:emp_stSelf-employed	NA
## GroupBlack_Woman:ethNative American:emp_stSelf-employed	NA
## GroupBlight_Man:ethNative American:emp_stSelf-employed	NA
## GroupBlight_Woman:ethNative American:emp_stSelf-employed	NA
## GroupWasian_Man:ethNative American:emp_stSelf-employed	NA
## GroupWasian_Woman:ethNative American:emp_stSelf-employed	NA
## GroupWhite_Man:ethNative American:emp_stSelf-employed	NA
## GroupWhite_Woman:ethNative American:emp_stSelf-employed	NA
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
##	Pr(> t )
## (Intercept)	0.040420
## GroupAsian_Woman	0.142462
## GroupBlack_Man	0.013474
## GroupBlack_Woman	1.27e-06
## GroupBlight_Man	0.824394
## GroupBlight_Woman	0.645369
## GroupWasian_Man	0.151720
## GroupWasian_Woman	0.974528
## GroupWhite_Man	0.761664

## GroupWhite_Woman	0.686623
## ethAsian	0.653518
## ethCaucasian	0.972230
## ethLatino	0.873792
## ethNative American	0.656581
## ethOther (including identifying as multiple)	0.930649
## emp_stEmployed part-time	0.801075
## emp_stSelf-employed	0.005422
## GroupAsian_Woman:ethAsian	0.335394
## GroupBlack_Man:ethAsian	0.122210
## GroupBlack_Woman:ethAsian	0.002842
## GroupBlight_Man:ethAsian	0.812904
## GroupBlight_Woman:ethAsian	0.832585
## GroupWasian_Man:ethAsian	0.380079
## GroupWasian_Woman:ethAsian	0.982246
## GroupWhite_Man:ethAsian	0.896238
## GroupWhite_Woman:ethAsian	0.239959
## GroupAsian_Woman:ethCaucasian	0.082342
## GroupBlack_Man:ethCaucasian	0.007646
## GroupBlack_Woman:ethCaucasian	3.31e-06
## GroupBlight_Man:ethCaucasian	0.911766
## GroupBlight_Woman:ethCaucasian	0.475005
## GroupWasian_Man:ethCaucasian	0.130977
## GroupWasian_Woman:ethCaucasian	0.920637
## GroupWhite_Man:ethCaucasian	0.903074
## GroupWhite_Woman:ethCaucasian	0.727083
## GroupAsian_Woman:ethLatino	0.468842
## GroupBlack_Man:ethLatino	0.038483
## GroupBlack_Woman:ethLatino	0.000373
## GroupBlight_Man:ethLatino	0.974633
## GroupBlight_Woman:ethLatino	0.858794
## GroupWasian_Man:ethLatino	0.314636
## GroupWasian_Woman:ethLatino	0.754598
## GroupWhite_Man:ethLatino	0.610638
## GroupWhite_Woman:ethLatino	0.636309
## GroupAsian_Woman:ethNative American	NA
## GroupBlack_Man:ethNative American	0.584281
## GroupBlack_Woman:ethNative American	0.517536
## GroupBlight_Man:ethNative American	NA
## GroupBlight_Woman:ethNative American	NA
## GroupWasian_Man:ethNative American	NA
## GroupWasian_Woman:ethNative American	NA
## GroupWhite_Man:ethNative American	NA
## GroupWhite_Woman:ethNative American	NA
## GroupAsian_Woman:ethOther (including identifying as multiple)	0.387719
## GroupBlack_Man:ethOther (including identifying as multiple)	0.232462
## GroupBlack_Woman:ethOther (including identifying as multiple)	0.005998
## GroupBlight_Man:ethOther (including identifying as multiple)	0.551221
## GroupBlight_Woman:ethOther (including identifying as multiple)	NA
## GroupWasian_Man:ethOther (including identifying as multiple)	0.919649
## GroupWasian_Woman:ethOther (including identifying as multiple)	0.781309
## GroupWhite_Man:ethOther (including identifying as multiple)	NA
## GroupWhite_Woman:ethOther (including identifying as multiple)	0.845791
## GroupAsian_Woman:emp_stEmployed part-time	NA

## GroupBlack_Man:emp_stEmployed part-time	NA
## GroupBlack_Woman:emp_stEmployed part-time	NA
## GroupBlight_Man:emp_stEmployed part-time	NA
## GroupBlight_Woman:emp_stEmployed part-time	NA
## GroupWasian_Man:emp_stEmployed part-time	NA
## GroupWasian_Woman:emp_stEmployed part-time	NA
## GroupWhite_Man:emp_stEmployed part-time	NA
## GroupWhite_Woman:emp_stEmployed part-time	NA
## GroupAsian_Woman:emp_stSelf-employed	0.535669
## GroupBlack_Man:emp_stSelf-employed	0.166258
## GroupBlack_Woman:emp_stSelf-employed	0.667595
## GroupBlight_Man:emp_stSelf-employed	0.773783
## GroupBlight_Woman:emp_stSelf-employed	0.688657
## GroupWasian_Man:emp_stSelf-employed	0.982156
## GroupWasian_Woman:emp_stSelf-employed	0.745307
## GroupWhite_Man:emp_stSelf-employed	0.025305
## GroupWhite_Woman:emp_stSelf-employed	0.925602
## ethAsian:emp_stEmployed part-time	NA
## ethCaucasian:emp_stEmployed part-time	NA
## ethLatino:emp_stEmployed part-time	NA
## ethNative American:emp_stEmployed part-time	NA
## ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## ethAsian:emp_stSelf-employed	0.070951
## ethCaucasian:emp_stSelf-employed	0.002538
## ethLatino:emp_stSelf-employed	0.035720
## ethNative American:emp_stSelf-employed	NA
## ethOther (including identifying as multiple):emp_stSelf-employed	0.036959
## GroupAsian_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupBlack_Man:ethAsian:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupBlight_Man:ethAsian:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupWasian_Man:ethAsian:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupWhite_Man:ethAsian:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethAsian:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlack_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlight_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupWasian_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupWhite_Man:ethCaucasian:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethCaucasian:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupBlack_Man:ethLatino:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupBlight_Man:ethLatino:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupWasian_Man:ethLatino:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethLatino:emp_stEmployed part-time	NA
## GroupWhite_Man:ethLatino:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethLatino:emp_stEmployed part-time	NA

## GroupAsian_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupBlack_Man:ethNative American:emp_stEmployed part-time	NA
## GroupBlack_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupBlight_Man:ethNative American:emp_stEmployed part-time	NA
## GroupBlight_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupWasian_Man:ethNative American:emp_stEmployed part-time	NA
## GroupWasian_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupWhite_Man:ethNative American:emp_stEmployed part-time	NA
## GroupWhite_Woman:ethNative American:emp_stEmployed part-time	NA
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time	NA
## GroupAsian_Woman:ethAsian:emp_stSelf-employed	NA
## GroupBlack_Man:ethAsian:emp_stSelf-employed	NA
## GroupBlack_Woman:ethAsian:emp_stSelf-employed	NA
## GroupBlight_Man:ethAsian:emp_stSelf-employed	NA
## GroupBlight_Woman:ethAsian:emp_stSelf-employed	NA
## GroupWasian_Man:ethAsian:emp_stSelf-employed	NA
## GroupWasian_Woman:ethAsian:emp_stSelf-employed	NA
## GroupWhite_Man:ethAsian:emp_stSelf-employed	NA
## GroupWhite_Woman:ethAsian:emp_stSelf-employed	NA
## GroupAsian_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupBlack_Man:ethCaucasian:emp_stSelf-employed	0.192357
## GroupBlack_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupBlight_Man:ethCaucasian:emp_stSelf-employed	0.928268
## GroupBlight_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupWasian_Man:ethCaucasian:emp_stSelf-employed	NA
## GroupWasian_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupWhite_Man:ethCaucasian:emp_stSelf-employed	NA
## GroupWhite_Woman:ethCaucasian:emp_stSelf-employed	NA
## GroupAsian_Woman:ethLatino:emp_stSelf-employed	NA
## GroupBlack_Man:ethLatino:emp_stSelf-employed	NA
## GroupBlack_Woman:ethLatino:emp_stSelf-employed	NA
## GroupBlight_Man:ethLatino:emp_stSelf-employed	NA
## GroupBlight_Woman:ethLatino:emp_stSelf-employed	NA
## GroupWasian_Man:ethLatino:emp_stSelf-employed	NA
## GroupWasian_Woman:ethLatino:emp_stSelf-employed	NA
## GroupWhite_Man:ethLatino:emp_stSelf-employed	NA
## GroupWhite_Woman:ethLatino:emp_stSelf-employed	NA
## GroupAsian_Woman:ethNative American:emp_stSelf-employed	NA
## GroupBlack_Man:ethNative American:emp_stSelf-employed	NA
## GroupBlack_Woman:ethNative American:emp_stSelf-employed	NA
## GroupBlight_Man:ethNative American:emp_stSelf-employed	NA
## GroupBlight_Woman:ethNative American:emp_stSelf-employed	NA
## GroupWasian_Man:ethNative American:emp_stSelf-employed	NA
## GroupWasian_Woman:ethNative American:emp_stSelf-employed	NA
## GroupWhite_Man:ethNative American:emp_stSelf-employed	NA
## GroupWhite_Woman:ethNative American:emp_stSelf-employed	NA

## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stSelf-employed	NA
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stSelf-employed	NA
##	
## (Intercept)	*
## GroupAsian_Woman	
## GroupBlack_Man	*
## GroupBlack_Woman	***
## GroupBlight_Man	
## GroupBlight_Woman	
## GroupWasian_Man	
## GroupWasian_Woman	
## GroupWhite_Man	
## GroupWhite_Woman	
## ethAsian	
## ethCaucasian	
## ethLatino	
## ethNative American	
## ethOther (including identifying as multiple)	
## emp_stEmployed part-time	
## emp_stSelf-employed	**
## GroupAsian_Woman:ethAsian	
## GroupBlack_Man:ethAsian	
## GroupBlack_Woman:ethAsian	**
## GroupBlight_Man:ethAsian	
## GroupBlight_Woman:ethAsian	
## GroupWasian_Man:ethAsian	
## GroupWasian_Woman:ethAsian	
## GroupWhite_Man:ethAsian	
## GroupWhite_Woman:ethAsian	
## GroupAsian_Woman:ethCaucasian	.
## GroupBlack_Man:ethCaucasian	**
## GroupBlack_Woman:ethCaucasian	***
## GroupBlight_Man:ethCaucasian	
## GroupBlight_Woman:ethCaucasian	
## GroupWasian_Man:ethCaucasian	
## GroupWasian_Woman:ethCaucasian	
## GroupWhite_Man:ethCaucasian	
## GroupWhite_Woman:ethCaucasian	
## GroupAsian_Woman:ethLatino	
## GroupBlack_Man:ethLatino	*
## GroupBlack_Woman:ethLatino	***
## GroupBlight_Man:ethLatino	
## GroupBlight_Woman:ethLatino	
## GroupWasian_Man:ethLatino	
## GroupWasian_Woman:ethLatino	
## GroupWhite_Man:ethLatino	
## GroupWhite_Woman:ethLatino	

```

## GroupAsian_Woman:ethNative American
## GroupBlack_Man:ethNative American
## GroupBlack_Woman:ethNative American
## GroupBlight_Man:ethNative American
## GroupBlight_Woman:ethNative American
## GroupWasian_Man:ethNative American
## GroupWasian_Woman:ethNative American
## GroupWhite_Man:ethNative American
## GroupWhite_Woman:ethNative American
## GroupAsian_Woman:ethOther (including identifying as multiple)
## GroupBlack_Man:ethOther (including identifying as multiple)
## GroupBlack_Woman:ethOther (including identifying as multiple)
## GroupBlight_Man:ethOther (including identifying as multiple)
## GroupBlight_Woman:ethOther (including identifying as multiple)
## GroupWasian_Man:ethOther (including identifying as multiple)
## GroupWasian_Woman:ethOther (including identifying as multiple)
## GroupWhite_Man:ethOther (including identifying as multiple)
## GroupWhite_Woman:ethOther (including identifying as multiple)
## GroupAsian_Woman:emp_stEmployed part-time
## GroupBlack_Man:emp_stEmployed part-time
## GroupBlack_Woman:emp_stEmployed part-time
## GroupBlight_Man:emp_stEmployed part-time
## GroupBlight_Woman:emp_stEmployed part-time
## GroupWasian_Man:emp_stEmployed part-time
## GroupWasian_Woman:emp_stEmployed part-time
## GroupWhite_Man:emp_stEmployed part-time
## GroupWhite_Woman:emp_stEmployed part-time
## GroupAsian_Woman:emp_stSelf-employed
## GroupBlack_Man:emp_stSelf-employed
## GroupBlack_Woman:emp_stSelf-employed
## GroupBlight_Man:emp_stSelf-employed
## GroupBlight_Woman:emp_stSelf-employed
## GroupWasian_Man:emp_stSelf-employed
## GroupWasian_Woman:emp_stSelf-employed
## GroupWhite_Man:emp_stSelf-employed
## GroupWhite_Woman:emp_stSelf-employed
## ethAsian:emp_stEmployed part-time
## ethCaucasian:emp_stEmployed part-time
## ethLatino:emp_stEmployed part-time
## ethNative American:emp_stEmployed part-time
## ethOther (including identifying as multiple):emp_stEmployed part-time
## ethAsian:emp_stSelf-employed
## ethCaucasian:emp_stSelf-employed
## ethLatino:emp_stSelf-employed
## ethNative American:emp_stSelf-employed
## ethOther (including identifying as multiple):emp_stSelf-employed
## GroupAsian_Woman:ethAsian:emp_stEmployed part-time
## GroupBlack_Man:ethAsian:emp_stEmployed part-time
## GroupBlack_Woman:ethAsian:emp_stEmployed part-time
## GroupBlight_Man:ethAsian:emp_stEmployed part-time
## GroupBlight_Woman:ethAsian:emp_stEmployed part-time
## GroupWasian_Man:ethAsian:emp_stEmployed part-time
## GroupWasian_Woman:ethAsian:emp_stEmployed part-time
## GroupWhite_Man:ethAsian:emp_stEmployed part-time

```



```

## GroupWhite_Woman:ethAsian:emp_stEmployed part-time
## GroupAsian_Woman:ethCaucasian:emp_stEmployed part-time
## GroupBlack_Man:ethCaucasian:emp_stEmployed part-time
## GroupBlack_Woman:ethCaucasian:emp_stEmployed part-time
## GroupBlight_Man:ethCaucasian:emp_stEmployed part-time
## GroupBlight_Woman:ethCaucasian:emp_stEmployed part-time
## GroupWasian_Man:ethCaucasian:emp_stEmployed part-time
## GroupWasian_Woman:ethCaucasian:emp_stEmployed part-time
## GroupWhite_Man:ethCaucasian:emp_stEmployed part-time
## GroupWhite_Woman:ethCaucasian:emp_stEmployed part-time
## GroupAsian_Woman:ethLatino:emp_stEmployed part-time
## GroupBlack_Man:ethLatino:emp_stEmployed part-time
## GroupBlack_Woman:ethLatino:emp_stEmployed part-time
## GroupBlight_Man:ethLatino:emp_stEmployed part-time
## GroupBlight_Woman:ethLatino:emp_stEmployed part-time
## GroupWasian_Man:ethLatino:emp_stEmployed part-time
## GroupWasian_Woman:ethLatino:emp_stEmployed part-time
## GroupWhite_Man:ethLatino:emp_stEmployed part-time
## GroupWhite_Woman:ethLatino:emp_stEmployed part-time
## GroupAsian_Woman:ethNative American:emp_stEmployed part-time
## GroupBlack_Man:ethNative American:emp_stEmployed part-time
## GroupBlack_Woman:ethNative American:emp_stEmployed part-time
## GroupBlight_Man:ethNative American:emp_stEmployed part-time
## GroupBlight_Woman:ethNative American:emp_stEmployed part-time
## GroupWasian_Man:ethNative American:emp_stEmployed part-time
## GroupWasian_Woman:ethNative American:emp_stEmployed part-time
## GroupWhite_Man:ethNative American:emp_stEmployed part-time
## GroupWhite_Woman:ethNative American:emp_stEmployed part-time
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stEmployed part-time
## GroupAsian_Woman:ethAsian:emp_stSelf-employed
## GroupBlack_Man:ethAsian:emp_stSelf-employed
## GroupBlack_Woman:ethAsian:emp_stSelf-employed
## GroupBlight_Man:ethAsian:emp_stSelf-employed
## GroupBlight_Woman:ethAsian:emp_stSelf-employed
## GroupWasian_Man:ethAsian:emp_stSelf-employed
## GroupWasian_Woman:ethAsian:emp_stSelf-employed
## GroupWhite_Man:ethAsian:emp_stSelf-employed
## GroupWhite_Woman:ethAsian:emp_stSelf-employed
## GroupAsian_Woman:ethCaucasian:emp_stSelf-employed
## GroupBlack_Man:ethCaucasian:emp_stSelf-employed
## GroupBlack_Woman:ethCaucasian:emp_stSelf-employed
## GroupBlight_Man:ethCaucasian:emp_stSelf-employed
## GroupBlight_Woman:ethCaucasian:emp_stSelf-employed
## GroupWasian_Man:ethCaucasian:emp_stSelf-employed
## GroupWasian_Woman:ethCaucasian:emp_stSelf-employed
## GroupWhite_Man:ethCaucasian:emp_stSelf-employed

```

```
## GroupWhite_Woman:ethCaucasian:emp_stSelf-employed
## GroupAsian_Woman:ethLatino:emp_stSelf-employed
## GroupBlack_Man:ethLatino:emp_stSelf-employed
## GroupBlack_Woman:ethLatino:emp_stSelf-employed
## GroupBlight_Man:ethLatino:emp_stSelf-employed
## GroupBlight_Woman:ethLatino:emp_stSelf-employed
## GroupWasian_Man:ethLatino:emp_stSelf-employed
## GroupWasian_Woman:ethLatino:emp_stSelf-employed
## GroupWhite_Man:ethLatino:emp_stSelf-employed
## GroupWhite_Woman:ethLatino:emp_stSelf-employed
## GroupAsian_Woman:ethNative American:emp_stSelf-employed
## GroupBlack_Man:ethNative American:emp_stSelf-employed
## GroupBlack_Woman:ethNative American:emp_stSelf-employed
## GroupBlight_Man:ethNative American:emp_stSelf-employed
## GroupBlight_Woman:ethNative American:emp_stSelf-employed
## GroupWasian_Man:ethNative American:emp_stSelf-employed
## GroupWasian_Woman:ethNative American:emp_stSelf-employed
## GroupWhite_Man:ethNative American:emp_stSelf-employed
## GroupWhite_Woman:ethNative American:emp_stSelf-employed
## GroupAsian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed
## GroupBlack_Man:ethOther (including identifying as multiple):emp_stSelf-employed
## GroupBlack_Woman:ethOther (including identifying as multiple):emp_stSelf-employed
## GroupBlight_Man:ethOther (including identifying as multiple):emp_stSelf-employed
## GroupBlight_Woman:ethOther (including identifying as multiple):emp_stSelf-employed
## GroupWasian_Man:ethOther (including identifying as multiple):emp_stSelf-employed
## GroupWasian_Woman:ethOther (including identifying as multiple):emp_stSelf-employed
## GroupWhite_Man:ethOther (including identifying as multiple):emp_stSelf-employed
## GroupWhite_Woman:ethOther (including identifying as multiple):emp_stSelf-employed
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 81.51 on 540 degrees of freedom
## Multiple R-squared:  0.1488, Adjusted R-squared:  0.04321
## F-statistic: 1.409 on 67 and 540 DF,  p-value: 0.02262
```

*# There are quite a few significant interactions in model2*

## Additional Analyses

```
# Recoding
new_df <- new_df %>%
  mutate(Gender = case_when(
    str_detect(Group, "Woman$") ~ "Female",
    str_detect(Group, "Man$") ~ "Male"
  ))

new_df <- new_df %>%
  mutate(Race = case_when(
    str_detect(Group, "^Asian") ~ "Asian",
    str_detect(Group, "^Black") ~ "Black",
    str_detect(Group, "^White") ~ "White",
    str_detect(Group, "^Blight") ~ "Biracial",
```

```

    str_detect(Group, "^Wasian") ~ "Biracial"
  ))

# Anova
anova_masculinity <- aov(masculinity ~ Race + Gender, data = new_df)
summary(anova_masculinity)

##              Df Sum Sq Mean Sq F value Pr(>F)
## Race          3    2.6  0.8562    1.056  0.367
## Gender        1    0.0  0.0227    0.028  0.867
## Residuals    603  488.8  0.8106

anova_femininity <- aov(femininity ~ Race + Gender, data = new_df)
summary(anova_femininity)

##              Df Sum Sq Mean Sq F value Pr(>F)
## Race          3    7.0  2.3442    2.252  0.0812 .
## Gender        1    0.1  0.0757    0.073  0.7874
## Residuals    603  627.6  1.0408
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

# Still not significant but the p = .08 for Race
TukeyHSD(anova_femininity)

##      Tukey multiple comparisons of means
##      95% family-wise confidence level
##
## Fit: aov(formula = femininity ~ Race + Gender, data = new_df)
##
## $Race
##              diff              lwr              upr              p adj
## Biracial-Asian  0.15934030 -0.13130714  0.44998773  0.4920681
## Black-Asian     0.24159836 -0.09631746  0.57951419  0.2547366
## White-Asian     -0.04674910 -0.38610553  0.29260734  0.9846668
## Black-Biracial  0.08225806 -0.21000830  0.37452443  0.8870714
## White-Biracial -0.20608939 -0.50002018  0.08784140  0.2713045
## White-Black     -0.28834746 -0.62909147  0.05239656  0.1299458
##
## $Gender
##              diff              lwr              upr              p adj
## Male-Female  0.0223218 -0.1401951  0.1848387  0.7874497

```